GZA
GeoEnvironmental, Inc.
March 8, 2007
File No. 41.0161318.00 Task 1600

Engineers and Scientists



440 Ninth Avenue 18th Floor New York, NY 10001 212-594-8140 Fax: 212-279-8180 www.gza.com Mr. Joseph Cotter i.park Edgewater, LLC 485 West Putnam Avenue Greenwich, Connecticut 06830

DNAPL Recovery Test

i.park Edgewater

45 River Road, Edgewater, New Jersey 07020

Dear Mr. Cotter:

Re:

GZA GeoEnvironmental, Inc. (GZA) is pleased to provide this report on the DNAPL recovery test conducted at the Site referenced above in December 2006. Our consulting services were conducted in accordance with the scope of work detailed in our proposal to i.park Edgewater, LLC (i.park) dated December 1, 2006.

Background

Non-aqueous phase liquid (NAPL) has been found on the northern portion of the Site in monitoring well MW-107. 0.87 gallons of NAPL were detected in this well in November and 2005. In order to assess whether the NAPL was recoverable or whether it would return after evacuation, GZA pumped out the NAPL and recorded its recovery rate.

Field Activities

The NAPL recovery test was performed by GZA staff on December 18, 2006. Prior to pumping the NAPL from the well, GZA gauged the depth to water, depth to NAPL, and depth to bottom using a oil-water interface probe. A peristaltic pump with HDPE tubing was used to remove NAPL from MW-107 at low flow rates. The intake portion of the tubing was located at the bottom of the NAPL layer and the flow rate was regulated to minimize drawdown in the well. Water levels and depth to NAPL measurements were recorded approximately every five minutes. All fluids were pumped to a 55-gallon drum for subsequent disposal. NAPL was pumped from the well until no product was detected with the oil-water interface probe and there was no visual evidence of NAPL in the pump tubing. After the NAPL removal, the pump was stopped and depth to water and depth to product measurements were taken approximately every 10 to 15 minutes. Once depth to product measurements stabilized, the NAPL was again removed from the well. This procedure was repeated until no NAPL returned to the well. After the second removal process, depth to water and depth to product measurements were continued for the remainder of the day and no NAPL returned to the well. In addition, no NAPL was detected during subsequent measurements taken three and eight days later. Measurements are presented in Table 1.

Results and Conclusions

The initial NAPL volume in monitoring well MW-107 was 0.077 gallons. The product was pumped from the well over a period of approximately 1.5 hours. During the first 13 minutes of recovery, 0.45 feet of NAPL was measured in the well. Product thickness measurements remained stable to within ± 0.06 feet over the next hour. The NAPL was again removed from

the well over a period of ten minutes and no product was detected in the well for the remainder for the work day (approximately four hours). Additionally, no product was detected in monitoring well MW-107 during gauging events conducted three and eight days later. Approximately one gallon of NAPL, which consisted of an oil-water mixture, was removed from the well.



Based on the above observations, measurable NAPL has not returned to monitoring well MW-107. In addition, no NAPL has been detected in the other adjacent monitoring well (MW-107A) or in MW-122A located 50 feet to the south. In addition, dense NAPL has not been detected in any of the other wells onsite. This suggests that the NAPL maybe largely residual in nature (i.e., not present as free product) and/or may not be feasibly recoverable. GZA recommends continued monthly monitoring of MW-107 to further evaluate the product recovery rate, if any.

We trust that this information satisfies your present needs. Should you need any additional information, please do not hesitate to call us at (212) 594-8140.

David Winslow, Ph.D., P.G.

Senior Project Manager

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Meredith K. Hayes

Assistant Project Manager

Michal M. Shaw, L.S.P.

Principal

Attachment: Table 1- DNAPL Recovery Test Results

DATE	Time	DTW (ft.)	DTP (ft.)	Thickness (ft.)	Pumping/Recovery
12/18/06	8:30	3.16	18.67	3.45	Pumping
12/18/06	9:39	3.16	18.61	3.51	Pumping
12/18/06	9:43	3.17	19.37	2.75	Pumping
12/18/06	9:48	3.17	20.68	1.44	Pumping
12/18/06	9:54	3.17	20.69	1.43	Pumping
12/18/06	10:02	3.17	ND	ND	Recovery
12/18/06	10:05	3.17	ND	ND	Recovery
12/18/06	10:18	3.17	21.67	0.45	Recovery
12/18/06	10:21	3.17	21.70	0.42	Recovery
12/18/06	10:27	3.17	21.69	0.43	Recovery
12/18/06	10:35	3.17	21.64	0.48	Recovery
12/18/06	10:45	3.17	21.61	0.51	Recovery
12/18/06	10:53	3.17	21.61	0.51	Recovery
12/18/06	11:09	3.17	21.63	0.49	Recovery
12/18/06	11:21	3.17	21.61	0.51	Recovery
12/18/06	11:24	3.17	ND	ND	Pumping
12/18/06	11:38	3.13	ND	ND	Recovery
12/18/06	11:52	3.16	ND	ND	Recovery
12/18/06	12:15	3.16	ND	ND	. Recovery
12/18/06	12:30	3.15	ND	ND	Recovery
12/18/06	12:45	3.15	ND	ND	Recovery
12/18/06	13:00	3.16	ND	ND	Recovery
12/18/06	13:15	3.15	ND	ND	Recovery
12/18/06	13:30	3.15	ND	ND	Recovery
12/18/06	13:45	3.15	ND	ND	Recovery
12/18/06	14:00	3.14	ND	ND	Recovery
12/18/06	14:15	3.15	ND	ND	Recovery
12/18/06	14:30	3.16	ND	ND	Recovery
12/18/06	14:45	3.16	ND	ND	Recovery
12/18/06	15:00	3.15	ND	ND	Recovery
12/18/06	15:15	3.15	ND	ND	Recovery
12/18/06	15:30	3.14	ND	ND	Recovery
12/21/06		3.23	ND	ND	Recovery
12/26/06		2.19	ND	ND	Recovery

Notes:

- 1. DTW- Depth to water.
- 2. DTP- Depth to product.
- 3. ND- Not detected.

APPENDIX D
Historic Fill Database
Summary Table

³ B(a)A = Be = Indeno(1,2	² URU = Unr	¹ ppm = parts per million	Zinc 2	Lead 0	Cadmium 0	Be ³ 0	enic	$D(a)A^3$				B(a)P ³ C			Mini
nzo(a)ar ,3-cd)py	estricted	s per mil	.45	.28	.02	.01	.05	.01	.02	.02	.02	.02	0.03	(maa)	Minimum
nthracene, B(rrene, D(a)A	l Use, RU = f	lion	10900	10700	510	79.7	1098	25.0	67.0	93.0	110.0	120.0	160.0	(maa)	Maximum
(a)P = Ber = Dibenzc	Restricted		575	574	1:1	1.23	13.2	1.24	1.41	1.79	1.91	1.89	1.37	(mada)	Avg
nzo(a)pyrene, l o(a,h)anthracer	Use, CDCSC		197	538	236	213	369	286	397	412	426	431	441	Samples	Number of
B(a)A = Benzo(a)anthracene, B(a)P = Benzo(a)pyrene, B(b)F = Benzo(b)fluorene, B(k) Indeno(1,2,3-cd)pyrene, D(a)A = Dibenzo(a,h)anthracene, Be = Beryllium	² URU = Unrestricted Use, RU = Restricted Use, CDCSCC = Current Direct Contact Soil		80	259	147	21	35	78	70	101	118	146	126	CDCSCC2	Number > URU
.orene, B(k)F =		·	4	48	62	6	9	27	18	25	28	34	29	CDCSCC ²	% > URU
F = benzo(k)fluoranthene, l(1)l	Cleanup Criteria		ω	119	C TI	21	35	78	18	26	39	146	33	CDCSCC ²	Number > RU
hene, I(1)P		Louisian	16		N	10	ဖ	27	(J)	6	9	34	7	CDCSCC	% > RU

NOTICE: This is a courtesy copy of this rule adoption. The official version of this rule was published in the July 5, 2005 New Jersey Register. Should there be any discrepancy between this text and the official version of the proposal, the official version will govern. For more information see the New Jersey Office of Administrative Law Rules page at http://www.nj.gov/oal/rules.html.

Original: Not Negotia Mellow: Shipping On Memorandus TO:	don O	Bill of L	vices Corp ading		
Consignee NXI Street 26319		F	ROM:	Date:	11-14-06.
Destination ABIN	DON Ut. 2		nipper ELN, rect 43 No.	itued.	
Date:	Δp	Or	igin FPGC L	ATTA M	
hipping nits	Job # Kind of Packaging, I Special Marks	1862.	,	Vehic Numb	Zip Code
n Dm	MON HOZAN	and Exceptions		Quantity	Units
1 PM		10-001-B	2	= 2200 PE	ends.
	UALIZ	NJ-002-	\$5		
	Net.	M 6	· WA Manada		
PER	1 th	4.06	Yel .	2 ENSOS	5,2N/
Myre asa	CR,	CARR	UER	Afm	11 20 66
par par	Esewater	SIGNA	Elsco.	DAT	

JOB# 102,2 CUSTOMER EVUICUET JOB LOCATION 75 FIV Edge 'Ake N	- 62							20- ading Aw ig, NJ 07 ax: (732	e.,B-2 7064 2) 969-9	9599			T & M No.: Day: ブロ Date: リカ			
NAMES	CODE		ERSON FINISH	************	RATE	ОТ	RATE	PER D	T	то	TAL	TYPE		QTY	RATE	TOTAL
M. Reffriger	Fr	U7NO		+												
				-												
								T	OTAL						TOTAL	
	E	QUIPM	ENT / T	aue.	ζS				OIAL -						. •	L
UNIT TYPE	QTY	START	FINISH	HR	RATE		DAILY	TRANS	TOT	TAL			PI	'E		
1-25		0700	3:30			-			ļ			TYPE		QTY	RATE	TOTAL
																
													 		TOTAL	
				-		-		····							1011E	<u> </u>
													DISPOSA	L		
								TOTAL			QTY	DESCRIPTION			RICING	TOTAL

WORK DESCRIPTION

TOTAL

CUSTOMER SIGNATURE:_____ CUSTOMER COMMENTS:_____

DESCRIPTION OF WORK PERFORMED: Picked up 12 diving from workers

2 trips 11 ori each trip

TOTAL

QTY START FINISH

SUBCONTRACTOR

JOB # NJ-186 CUSTOMER & ZA JOB LOCATION UNX 1 E	52. 6 UL	2		So	9	900 F Port	Port Rea Readin	ding Ave g, NJ 07 ax: (732	e.,B-2 ′064	9599				T & M N Day: Date:		70 A	07	7
		PI	ERSON	NEL				PER D	IEM			30000		TAM	ERIA	LS		
NAMES	CODE	START	FINISH	ST	RATE	ОТ	RATE	RATE	QTY	ТО	TAL		TYPE		QT	Y R	ATE	TOTAL
1. RHABUR	150	0790	-	_								İ						
7-111203												l						
				-								1						
	 	†		1				1				İ						
	 	 	 	+	† · · · · · ·		1						·····					
	 	 	<u>† </u>	-	 		 					ŀ						
			 	+	 	 	 											
		I			<u> </u>	<u></u>	<u> </u>		OTAL.	 		l				TO	TAL	
								•	J (L	L							L	
	1	MAIDE		**********		T	5407	TOANC	T	CAL								
UNIT TYPE	QTY	START	FINISH	HH	RATE		DAILY	TRANS	TOT	AL		200000			PPE			
5-4.	1								 -		į	Ì	TYPE		Q1	Y R	ATE	TOTAL
								······································										
	1					_			ļ									
						\dashv			 			1				TO	TAL	
									<u> </u>								L	
									↓			-						
														DISPOS	AL.			
								TOTAL			QTY	DE	SCRIPTION	MANIFE	ST#	PRIC	ING	TOTAL
SUBCONTRACTOR	QTY	START	FINISH	W	ORK DE	SCRI	IPTION						W KAZ	30		ms	<u> </u>	
								_										
	+												*****					
	+												· · · · · · · · · · · · · · · · · · ·					
		1		L	TOT	ΔΙ					L	L		<u> </u>	L	TC	OTAL	
DESCRIPTION OF WORK PERFOR		. ورسيب			ران. م	"- L	001	_	سر (i	u i	10	usy DA	Jun S	•			
DESCRIPTION OF WORK PERFOR	RMED:	7004	705 10		/ ()	11)	1005		_	<u></u>	7	,~()-/ - = 1(- vin		····		
1 SOLI'D	<u> </u>						 											
													<u> </u>					
CUSTOMER SIGNATURE:					CUST	OME	R COMM	IENTS:_										

SCIENTISTS Summit Travis A. Hough - 2" diameter, 48-inch long, cl SAMPLE LE PEN/REC DEPTH		STRATUM DESCRIPTION	DATUM DATE END 6/8/07	FIELD
Travis A. Hough - 2° diameter, 48-inch long, ci SAMPLE LE PÉN/REC DEPTH	GROUND SURFACE ELEV. DATE START 6 ar acetate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM	DATE END 6/8/07	FIELD
A. Hough - 2" diameter, 48-inch long, cl SAMPLE LE PÉN/REC DEPTH	ar acetate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION (FT) BURMISTER CLASSIFICATION	STRATUM	DATE END 6/8/07	T SELO
- 2" diameter, 48-inch long, cl SAMPLE LE PEN/REC DEPTH	ar acetate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION (FT) BURMISTER CLASSIFICATION	STRATUM	EQUIPMENT	T SIELD
SAMPLE LE PEN/REC DEPTH	SAMPLE DESCRIPTION (FT) BURMISTER CLASSIFICATION	4.1	1	T EIEND
SAMPLE LE PEN/REC DEPTH	SAMPLE DESCRIPTION (FT) BURMISTER CLASSIFICATION	4.1	1	FIELD
1 1		DESCRIPTION	BINTS	1.220
		,	INSTALLED	TESTING
	Concrete slab approx. 1.2' (air rìg used)			
	 			
	S1: Black, fine to coarse Sand, some fine Gravel, little Silt.		1	
4/1.4 1-				0
 				0
				0
	<u> </u>			
	_			
			1	
	20 To 91 Power to block Co. 10 To 20			
4/3 5-	Gravel, little Silt, trace Organics (pieces of wood). Bottom 2".			
	Black, CLAY, some Silt, little fine Gravel.			1
				0
				0
				١ ,
40.8	S3: Top 1.4': Black, fine to coarse, SAND and fine GRAVEL.			
72.5	0.7': some pink, fine to medium sand; at approx 1': some			İ
	yellow Organics (pieces of wood, slight sheen).			Ì
			ł	
				
 	-			1
	 .			
+	S4: Top 1.2": Black, fine to coarse, SAND and fine GRAVEL			°
4/3,4 13	7 Bottom 2.2": Gray, Sitty CLAY and ORGANICS (roots), little fine Gravel.			
	 			
	 			•
 				}
	 			0
	End of Boring 17'			
1 1			<u> </u>	
	4/2.8 9-1:	Black, CLAY, some Sit, little fine Gravel. S3: Top 1.4': Black, fine to coarse, SAND and fine GRAVEL. Bottom 1.4': Gray, Silty CLAY, little fine Gravel (at approx. 0.7': some pink, fine to medium sand; at approx 1': some yellow Organics (pieces of wood, slight sheen). S4: Top 1.2': Black, fine to coarse, SAND and fine GRAVEL Bottom 2.2': Gray, Silty CLAY and ORGANICS (roots), little fine Gravel.	4/3 5-9 Gravel, little Silt, trace Organics (pieces of wood). Bottom 2: Black, CLAY, some Silt, little fine Gravel. S3: Top 1.4': Black, fine to coarse, SAND and fine GRAVEL. Bottom 1.4': Gray, Silty CLAY, little fine Gravel (at approx. O.7': some pink, fine to medium sand; at approx 1': some yellow Organics (pieces of wood, slight sheen). S4: Top 1.2': Black, fine to coarse, SAND and fine GRAVEL. Bottom 2.2': Gray, Silty CLAY and ORGANICS (roots), little fine Gravel.	4/3 5-9 Gravel, little Slit, trace Organics (pleces of wood). Bottom 2: Black, CLAY, some Silt, little fine Gravel. S3: Top 1.4: Black, fine to coarse, SAND and fine GRAVEL. Bottom 1.4: Gray, Silty CLAY, little fine Gravel (at approx. 0.7: some pink, fine to medium sand; at approx 1: some yellow Organics (pleces of wood, slight sheen). S4: Top 1.2: Black, fine to coarse, SAND and fine GRAVEL. Bottom 2.2: Gray, Silty CLAY and ORGANICS (roots), little fine Gravel.

O NINTH A	ENVIRU AVENUE, 1	NMENTAL 18TH FLOOR	OF NEW YORK,	NY 10001 FPark Edg	ewater	REPO		T 1 of 1	
GINEERS	S AND SCI	ENTISTS		45 River Edgewater, N			CHKD B	D. 41.0161318.00 Y DW	J.
RING CO.		Summit Drilling		BORING I	OCATION See Exploration t	ocation Plan			
REMAN		Travis		GROUND SURFA			DATUM		-
A ENGINEE!	P	D. Salerno			TE START 10/26/06		TE END 10/26/06		•
									-
	oprobe™ - 2		ch long, clear ace	etate liner, installed with a hydraulic hammer.		F	FOURALENT	FIELD.	T
DEPTH (FT)	SAMPLE	SAMPLE PEN/REC	DEPTH (FT)	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRAT DESCRIF	1	EQUIPMENT	FIELD TESTING	
·"	NO								Ļ
l		48/24	0-4	vacuum excavated to 4' bgs				0.0 ppm	l
ĺ		ļ							l
		<u> </u>						0.0 ppm	l
2 —	1	<u> </u>			1				
		ļ			į.	ŀ		0.0 ppm	l
		ļ			FILI	-			l
		<u> </u>						0.0 ppm	
4 —		 							
		42/24	4-8	Black, f-m SAND, some Silt.				0.0 ppm	1
					İ				l
1								0.0 ppm	l
6 —	2								l
1			1		ł			0.0 ppm	l
			 					1	l
			<u>.</u>						l
* - 		 	<u> </u>	EOB @ 8'.					l
						İ			l
			ļ ———		1				
10 —	3		<u> </u>			-			l
ļ			 			İ			l
{									ĺ
					1			1	ı
12 —		<u> </u>							l
					‡	ļ		ł	l
								İ	l
ĺ		<u></u>	 		1	ŀ			ł
14 —	4		 			i			l
]				
									l
			ļ					1	
l			1					_L	ı

				NEW YORK YORK, NY 10001		PROJECT park Edgewater		REPOR		SHEET		
ENGIN	EERS AN	D SCIENTIS	тѕ		Edg	45 River Road ewater, New Jersey				ENO KD BY_	41,0161318:00 DW	
BORING	CO.	Summit Drilling				BORING LO	CATION	See Exploration	Location Pla	n		· ·
FOREMA	.N	Denis Crayon				GROUND SURFAC			-	MUTAC		
GZA ENG	3.	Meredith Hayes	and Danielle S	alemo		DATE	START	10/13/06	- DAT	E END _	10/13/06	_
				LER CONSISTS OF MER FALLING 30 IN		DATE	TIME	GRO WATER	UNDWATER CASIN		GS STABILIZATION	TIME
CASING:	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300	lb		T					
HAMMER	RFALLING											
CASING		T	OTHER 3 3/4"	HSA SAMPLE			MDIED	ESCRIPTION	1	R	STRATUM	
DEPIH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*	1		LASSIFICATION		ĸ	DESCRIPTION	FIELD TESTING
			24/14	0-2	11	Black f-m SAND, lit	tle Silt					0
		1			14	(2" concrete in botto	om and m	iddle, wood and t	race		FILL	
		S1			20	brick in battom).						
2.0		1			25							
2.0	 		0.5							1 1		
	<u> </u>	1	9/8	2-4	25	Gray f-m SAND, so	me Silt, S	ome i Gravel.				0
	-	S2			50/3	ł						0
		-			ļ	HSA to 4'.				1 1		
4.0										1.		
			24/16	4-6	16	Brown m-c SAND, s	ome Silt,	trace f Gravel		2.		٥
		S3			18	(trace brick and wo	od).					0
]			20							0
6.0					37	7						
-						EOB @ 6'.				I		
		1										
	\vdash	1				1						
	—	1			 	1				1 1		ł
8.0		-		<u> </u>	 	1				1 1		}
		4				-						1
ŀ		1			1	ł						İ
]				1						
10.0						1						
-						1						
		1				1				1		
i.		1				1						
	-	1				1				1		
12.0	-	 	 			1						
1		-{			 	1				1 1		
	ļ	4	<u> </u>		 	ł				1 1		
		4				1						
14.0												
	GRANULA	R SOILS	col	ESIVE SOILS	REMARKS:							
		DENSITY	BLOV	VS/FT DENSITY	1. Sample ta	ken at 3.5-4' at 1420	for TPH.	PAH analysis.				
0-4		RY LOOSE	<2	VERY SOFT	2. Water tab							
4-10		LOOSE	2-4	SOFT								
10-30		NUM DENSE	4-8	M. STIFF								
30-50		DENSE	8-15	STIFF								
		RY DENSE	15-30	V. STIFF								
>50	VE	NI DENSE	>30	HARD	1							
h		4) 670 47000		EPRESENT APPROXIN	IATE BOUND	RY RETIATEEN CO	TVDEC	TRANSITIONS	MAY BE GET	DUAL		
NOTES	4										ED	
_		•		S HAVE BEEN MADE AT						JIND WAT	ER	
GZ)	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	SE PRESENT	AT THE TIME MEAS	SUREME	NIS WERE MAD	E	ŗ	DODRES NO	674.00
L ~ 7	-										BORING NO.	GZA 98

GZA C	EOEN	VIRONME	NTAL OF	NEW YORK YORK, NY 10001		PROJECT		REPORT	OF BORING	3 NO. HEET	GZA-99 1 of 1	
						45 River Road			FILE	E'NO.	41.0161318,00	
ENGINE	ERS AN	ID SCIENTIS	TS	<u> </u>		Edgewater, New Jer	śey		CHK	D BY	DW	
BORING	co.	Summit Drilling					BORING LOCATION		See E	xplorat	tion Location Plan	
FOREMA		Denis Crayon				GROU	ND SURFACE ELEV.		DA	ATUM		
GZA ENG	-	Meredith Hayes	and Danielle Sa	demo			DATE START	10/13/06	DATE	END	10/13/06	
	•											
SAMPLER	R: UNLESS	OTHERWISE	NOTED, SAMPI	LER CONSISTS OF				GROUNDWAT	ER READING	GS:		
1				MER FALLING 30 IN		DATE	TIME	WATER	CASING	3	STABILIZAT	ION TIME
ļ.										٠.		
CASING:	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300 Ib								
HAMMER	RFALLING	24 IN.										
CASING	SIZE:		OTHER 3 3/4"	HSA								
DEPTH	CASING			SAMPLE	,		SAMPLE DESCRI			R	STRATUM	FIELD TESTING
	BLOWS	SPOON NO	PEN/REC	DEPTH (F1)	BLOWS/6*		BURMISTER CLASSI	FICATION		K.	DESCRIPTION	(PPM)
			24/17	0-2	4	Brown f-m SAND, litt	le Silt, trace f Gravel (organic material,		l		0
		_			8	brick layer at 12-14")			i			0
		S1			25					l	FILL	0
L.	 					1]	ļ	, ,,,,	
2.0	-			-	22	1			ļ			
			24/18	2-4	23	Black f-m SAND, sor	ne Silt, trace f Gravel	(slight odor,	j			0
		\$2			33	solid wood at 40-42")						0
					60							0
4.0		1	,		65					ŀ		
- °						1				.		
			24/6	4-6		Brown 1-m SAND, litt	le Silt, trace f Gravel (organic material).	İ	1		°
1		S3							2			
	1					j						
6.0		1				Ì			- 1			
-	 					500 G S						
1	-					EOB @ 6'.						
į						ļ						
i]				1						
8.0						}						
-						1						<u> </u>
1		•				1			- 1			
i .	├ ─	1			 	ł			- 1			
		1				-			- [
10.0												
									- 1			
1		1										
Ì		1				1						
l	<u> </u>	4			ļ	4						
12.0						4						
	L]						j
1	[1						
1		1				1						
ı		1	 	l	 	1			ĺ			
14.0	Щ.	L	ļ	L	-	L						1
1	GRANULAI	R SOILS	_ co	HESIVE SOILS	REMARKS:							
В	LOWS/FT	DENSITY	BLO	WS/FT DENSITY	1. Sample taker	at 4-4.5' at 1330 for 1	ГРН, РАН.					
0-4	VE	RY LOOSE	<2	VERY SOFT	2. Water table a	nt 4.5-5'.						
4-10		LOOSE	2-4	SOFT	1							
10-30		IUM DENSE	4-8	M. STIFF	1							
1			8-15	STIFF								
30-50		DENSE	1.]				,			•
>50	VE	RY DENSE	15-30	V. STIFF	1							
<u> </u>			>30	HARD	<u> </u>				-			
NOTES	:	1) STRATIFIC	ATION LINES R	EPRESENT APPROXIMA	TE BOUNDARY B	ETWEEN SOIL TYPE	S, TRANSITIONS MA	Y BE GRADUAL.				
ŀ		2) WATER LEY	VEL READINGS	HAVE BEEN MADE AT T	IMES AND UNDE	R CONDITIONS STA	TED, FLUCTUATIONS	OF GROUNDWA	TER			
				R FACTORS THAN THOSE								
GZ)										BORING NO.	GZA-99

674	EOEN	VIDANINE	NTAL OF	NEW YORK		PROJECT		PEDOI	T OF BORING	SIO.	GZA-100A	
440 NIN	ITH AVE	VIRUNINE VUE. 18TH F	LOOR, NEW	YORK, NY 10001		I park Edgewater		, AEFOR	St			
		7 .				45 River Road			FILE		41.0161318.00	
ENGIN	EERS AN	D SCIENTIS	TS			Edgewater, New Je	sey		ОНК	D BY	DW	
BORING	co.	Summit Drilling			_	1	BORING LOCATION					
FOREMA	•	John Murtha			_	GROL	ND SURFACE ELEV.		-	TUM		
GZA ENG	. ,	Meredith Hayes	and Danielle Sa	elerno	-		DATE START	10/12/06	- DATE	END	10/12/06	
		OTHERMINE	NOTED CAMBI	ER CONSISTS OF		-		GROHNOV	VATER READ!	NGS		
				MER FALLING 30 IN		DATE	TIME	WATER	CASING		STABILIZATIO	N TIME
	, 0, 00,	31111211 301113									<u> </u>	
CASING:	UNLESS	THERWISE N	OTED, CASING	DRIVEN USING A 300 lb				<u> </u>	ļ			
	RFALLING											
CASING	SIZE: CASING		OTHER 3 3/4"	SAMPLE		-	SAMPLE DESCR	IPTION	1	R	STRATUM	FIE: 0. 2502410
DEPIN	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	1	BURMISTER CLASS			к	DESCRIPTION	FIELD TESTING (PPM)
			24/14	0-2	14	Brown f-m SAND, tr	ace f Gravel (little con	crete top 2").				0
1					7		•	•	i			0
		S1			7							0
2.0					3	1			ļ			
 *." -			80.00		2	No soons			į		FILL	
1			24/0	2-4		No recovery			[FILL	
		\$2			1 .	1			İ			
1	 				1	1			1			
4.0	 				1	-			1			
1	<u> </u>		24/5	4-6	1 1	Black f GRAVEL (or	ganic material and wo	od fibers).	ľ	1		٥
	<u> </u>	\$3			11	-						
1	<u> </u>		Ĺ		11	4			i			
6.0					1					2		
	L					EOB @ 6'.			1			
	Γ								1			
1												
8.0		1				}						
'						1						
		1				1						
1		1			1	1						
						1						
10.0	+				 	1						ļ
1		ł			 	1						
		-			 	-{						ļ
		1		ļ	 	-{						
12.0	 		ļ		 	4]			
	<u></u>	1		ļ	ļ	4			1		•	}
	<u> </u>	Į			ļ							
		1				4						
14.0		<u> </u>				<u> </u>						
	GRANULA	R SOILS		OHESIVE SOILS	REMARKS:							
	BLOWS/FT	DENSITY	BL	OWS/FT DENSITY	1. Water table	at 4-4.5'						
0-4	VE	RYLOOSE	<2	VERY SOFT	2. Moved borel	nole due to low recove	ry.					
4-10		LOOSE	2-4	SOFT	1							
10-30	MED	IUM DENSE	4-8	M. STIFF	1							
30-50		DENSE	8-15	STIFF	1							
>50	VE	RY DENSE	15-30	V. STIFF								
			>30	HARD	1							
NOTES	<u></u>	1) STRATIFIC	ATION LINES R	EPRESENT APPROXIMATE	BOUNDARY BET	WEEN SOIL TYPES,	TRANSITIONS MAY E	BE GRADUAL.				
				HAVE BEEN MADE AT TIM					ER			
	•			R FACTORS THAN THOSE								
GZN))										BORING NO.	GZA-100A

•

GZA (440 NIN	EOEN	VIRONME NUE, 18TH F	NTAL OF LOOR, NEW	NEW YORK YORK, NY 10001		PROJECT I park Edgewater		REPOR		HEET	1 of 1	
ENGINE	FRS AN	ID SCIENTIS	TS .		E	45 River Road dgewater, New Jers	eý			E NO. KD BY		
		<u></u>					RING LOCATION				ation Location Plan	
Boring Forema		Summit Drilling John Murtha			-	1	SURFACE ELEV.			ATUM		
GZA ENG		Meredith Hayes	and Danielle Sa	ilemo	_	}	DATE START		DATI	END	10/12/06	-
									.,,-			
T .				ER CONSISTS OF IER FALLING 30 IN		DATE	TIME	GROUNE WATER	WATER RE		S STABILIZAT	ON TIME
CASING:	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300 lb								
HAMMER	FALLING	24 IN.										
CASING			OTHER 3 3/4"					1			0770471114	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"		SAMPLE DES			R	STRATUM DESCRIPTION	FIELD TESTING (PPM)
	BLOWS	37001110	FEIGUES	92 112(11)				············				
		1			 	HSA to 3'						
i		1			 	1						l
						ļ ·						
					ļ							
]				1						1
3.0						}				'		
"			24/	3-5	5	Brown f-m SAND,	little Silt (organic	material, concrete	top	l		0
		1			4	27).				Ì	FILL	
		S1			1	f"						
1	├	·			6	1				١.		Ů
5.0					6	-]1.		
İ		4	24/7	5-7	2	Brown-black f-m S	AND, little Silt (or	ganic material		2.		0
		S2			2	and wood).						0
		1			5	_						1
7.0		1			5							
-			24/9	7-9	2	Brown-black f-c S	AND (wood and o	rnanic material				
1		1	2413	(-5		1		gum muuma,				
l		. S3			2	product staining, a	ла ѕидлі фаог).			Ì		,
	<u> </u>	┫			2	-{					1	ļ
9.0	ļ	ļ			 2	4				l		1
ŀ		_	24/15	9-11	2	Black f-c SAND, li	tte f Gravel (obvi	ous odor),				124
		s ₄			1 1	changing after 8" (o brown-black PE	EAT.				0
1] "			11	ļ				3.] , ,
11.0		1			1	1					PEAT	}
		1				EOB @ 11".						
1	\vdash	1			†	1.02.6.				ŀ		
	-	-		<u> </u>	+	1						
	<u></u>	4			+	1					1	
13.0	<u> </u>	 	<u> </u>		+	4						
		_		<u> </u>		4						
i						1						
1]	l]						
15.0		1				1						
	GRANUL/	AR SOILS		OHESIVE SOILS	REMARKS:							
1		DENSITY		OWS/FT DENSITY	1	n at 3.5-4' at 0905 f	or TPH					
			1	VERY SOFT	2. Water table							
0-4	VE	RYLOOSE	<2				OF TON DAM					
4-10		LOOSE	2-4	SOFT	3. Sumple take	n at 9-9,5' at 0930 f	w 1FM, FAM.					
10-30	ME	DIUM DENSE	4-8	M. STIFF								
30-50		DENSE	8-15	STIFF	1							
>50	VE	RY DENSE	15-30	V. STIFF								
<u></u>			>30	HARD	1							
NOTES	š :	•		EPRESENT APPROXIMATI								
1		2) WATER LE	VEL READINGS	HAVE BEEN MADE AT TIM	MES AND UNDER	CONDITIONS STA	red, fluctuat	IONS OF GROUN	DWATER			

(CIN)

MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

BORING NO. GZA-100B

440 NÎN	GEOENVIRONMENTAL OF NEW YORK INTH AVENUE, 18TH FLOOR, NEW YORK, NY 100 NEERS AND SCIENTISTS					PROJECT I park Edgewater 45 River Road		REPOR	OF BORING:) SHE FILE:1	ET _	GZA-101A 1 of 1 41.0161318.00	
NGINE	ERS A	ID SCIENTIS	TS			Edgewater, New Jers	ey _.		CHKD	BY_	DVV	and the second
ORING	CO.	Summit Drilling					ORING LOCATION		See Ex	plorat	ion Location Plan	
OREMA	N	John Murtha			•	GROUND	SURFACE ELEV.		- DATI	_		-
ZA ENG	i.	Meredith Hayes	and Danielle S	alemo	•		DATE START	10/12/06	DATE E	ND _	10/12/06	-
				PLER CONSISTS OF IMER FALLING 30 IN	· · · · · · · · · · · · · · · · · · ·	DATE	TIME	GROUNDY WATER	VATER READING	GS	STABILIZAT	TON TIME
	UNLESS		OTED, CASING	DRIVEN USING A 300 I	b					1		
CASING			OTHER 3 3/4"	HSA								
	CASING			SAMPLE			SAMPLE DESCR			R	STRATUM	FIELD TESTIN
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	В	URMISTER CLASS	SIFICATION		κļ	DESCRIPTION	(PPM)
			24/20	0-2	12	Light-dark brown, f-n	n SAND, changing :	after 13" to brown	1	- 1		0
		S1			14	f SAND, little Silt (2"	concrete in middle	of spoon).	}	- 1		0
		1 "			12				1	ŀ	FILL	
		1			12	1			}			
2.0					- '-	1				ŀ		
			0/0	2-4	 	HSA to 7'.						
		S2				-				ı		-
						1			}			
1.0						_						ł
-]						
		1				1						ļ
	 	1				1						ŀ
		+			 	4						1
3.0		<u> </u>				4						
]]						
		1				EOB @ 7' (refusal o	n concrete)		1.			
		1				1	ii donarciej.		"	-		
8.0	} —	 				-				-		1
		4			 	-{						
	L	1		<u>.</u>	<u> </u>	4						
					<u> </u>	j				- 1		
10.0]				1						
-						1						
ı		1			 	1						
	<u></u>	4			 	┥						
	<u> </u>	4		ļ	ļ	4			1			
12.0			<u> </u>		<u> </u>	4						
						_			-			
		7							-			
		1				1				- 1		
ĺ	-	4			 	1			j			
14.0	<u> </u>	<u></u>	ļ	L	<u> </u>	<u> </u>					·	1
į	GRANUL/	R SOILS	co	HESIVE SOILS	REMARKS:							
	LOWS/FT	DENSITY	BLO	WS/FT DENSITY	4							
0-4	VE	RY LOOSE	<2	VERY SOFT	1. Moved borin	g ~5'.						
4-10		LOOSE	2-4	SOFT								
10-36	ME	NUM DENSE	4-8	M. STIFF								
30-50	19186	DENSE	8-15	STIFF								
			i									
>50	VE	RY DENSE	15-30	V. STIFF								
			>30	HARD	<u> </u>							
NOTES	:			REPRESENT APPROXIM								
į		2) WATER LE	VEL READING	S HAVE BEEN MADE AT	TIMES AND UND	DER CONDITIONS ST	ATED, FLUCTUAT	IONS OF GROUN	IDWATER			
	à	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THOS	E PRESENT AT	THE TIME MEASURE	EMENTS WERE MA	\DE		-		
GZ\	y									- 1	BORING NO.	GZA-101A

GŹA G	GEOENVIRONMENTAL OF NEW YORK INTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPOR	T OF BORING	NO.	GZA-101B	The state of the s	
770 1464	ELIVE L	100, 10,111	20071, 71277	, Lording 111, second	2	45 River Road				NO.	41.0161318.00	
ENGINE	ERS AN	D SCIENTIS	TS			Edgewater, New Jers	ву	1	СНК	D BY	DW	
BORING	co.	Summit Drilling			_	ВС	RING LOCATION	See Exploration I	Location Plan			
FOREMA		John Murtha			_	GROUND	SURFACE ELEV.		- DA	TUM.		
GZA ENG	i. '	Meredith Hayes	and Danielle S	alemo	_		DATE START	10/12/06	DATE	END	10/12/06	_
	•											
				LER CONSISTS OF MER FALLING 30 IN		DATE	TIME	GROUNDY WATER	VATER READ		STABILIZATI	ON TIME
CASING:	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300 lb								
HAMMER	FALLING	24 IN.										
CASING	SIZE:		OTHER 3 3/4"				l	<u> </u>	<u> </u>	1		,
DEPTH	CASING		THE STATE OF	SAMPLE	1 21 2142 42		SAMPLE DESCI		1	R	STRATUM	FIELD TESTING
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	<u> </u>	URMISTER CLAS	SIFICATION		к	DESCRIPTION	(PPM)
					<u> </u>	HSA to 3'			•			
]						
		İ				1			ŀ			
i '	·					1			ŀ			
1					+	1			İ	ļ		
l '	<u> </u>				 	4				- 1		
3.0						1						
1 -			24/17	3-5	3	Brown-black m-c SA	ND, little Sitt (cond	crete in bottom 2"	İ			0
		1			7	of spoon).						
[-	S1				or spoorly.						Ů
1					5	1					FILL	
5.0					5	ļ						
	ļ		24/19	5-7	5	Brown f-m SAND, lit	tle Silt, little f Grav	rel (trace wood).				0
1		1			7	7						٥
		S2										
]		1				3						
7.0					6	6				1.		
]	24/14	7-9	3	Brown m-c SAND, s	ome Silt.			2.		0
l					3					ļ		0
] "			3							
L.	-	1			2	1						
9.0												
1		4	24/9	9-11	 2	Brown-black f-m SA	ND, some Silt (org	anic material,				0
1		S4			3	geotextile fabric with	hard pitch materia	al in bottom 2").	- 1			0
l]	l		1							
		1			1							
11.0	\vdash	 	 									_
1	<u> </u>	4	24/11	11-13	- 6	Black m-c SAND, lift	ne f Gravel (organi	ic material),				"
1	<u></u>	S5			7	changing after 8" to	brown SILTY CLA	Y.				0
1	L	j	<u></u>		10	1						•
13.0		1			11						SILTY CLAY	
•	†	 				EOR @ 12			-			
}	-	1			+	EOB @ 13°.			1			
<u> </u>	<u> </u>	<u> </u>	<u> </u>	L	+	1						<u> </u>
1	GRANULA	RSOILS		COHESIVE SOILS	REMARKS:							
	LOWS/FT	DENSITY	.BL	OWS/FT DENSITY	1. Sample take	n at 6.5-7° at 11:00 for	ТРН, РАН.	•				
0-4	VE	RY LOOSE	<2	VERY SOFT	1. Water table	observed at 7' bgs.						
4-10		LOOSE	2-4	SOFT	1							
10-30		IUM DENSE	4-8	M. STIFF	1							
1			8-15	STIFF								
30-50		DENSE	1		1							
>50	VE	RY DENSE	15-30	V. STIFF	1							
1			>30	HARD								
NOTES	NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BET						TRANSITIONS MA	AY BE GRADUAL.				
		2) WATER LE	VEL READINGS	HAVE BEEN MADE AT TIM	ES AND UNDER C	CONDITIONS STATES	O, FLUCTUATION:	S OF GROUNDWA	ATER			
				R FACTORS THAN THOSE P								
GZ\)										BORING NO.	GZA-101B
I												

PRING CO. PREMAN LA ENGINE	S AND SCI	Summit				CHKD,B	' ````	
REMAN				BORING LOCATION		·		
		Travis		GROUND SURFACE ELEV.		DATUM		•
	FD	A. Hough		DATE START 6/8	3/07	DATE END 6/8/07		•
MPLER: G	eoprobe TM - 2*		h long, clear ace	ate liner, installed with a hydraulic hammer.			1	
DEPTH		SAMPLE	T	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM	EQUIPMENT INSTALLED	FIELD TESTING	,
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	BORNIS) ER CESSIFICATION	DESCRIPTION	IN TALLED	1207	'
				Concrete slab approx. 1.4' (air rig used)				Г
								l
:		4/1	1.4 - 5.4	S1: Brown to dark brown, fine to coarse SAND, little Silt, some fine Gravel.				
	1		1,4 - 3.4	some fine Graver.				ł
			†				•	
	1		<u> </u>					l
	1		 	1				
	†		1	1				l
	1	———	 	1				
		-		1			Ì	
		<u> </u>	 	S2: Brown to black, fine to coarse SAND, some fine Gravel.				l
	┪	4/2	5.4 - 9.4	little Silt.				l
			+	1			ļ	l
				1				l
	2		 	-			0	l
	4	-	 	 			1	l
			 				0	l
				1				l
				Dark brown fine coarse SAND, some fine Gravel, little Silt			0	
<u> </u>	4	4/4	9.4 - 13.4	(sheen) (wet at 8.3').				l
				4			0	ŀ
			<u> </u>	4				l
	3	-		4			0	l
2	4		ļ	1				İ
			ļ	.			0	l
	1			<u>.</u>				l
	1	L				1	0	l
4	_	4/3.5	13.4 - 17.4			I		l
	1			(roots).				۱
	1			1			0	1
	4			<u> </u>			0	
6								
	1]			0	l
	İ			1				l
			İ	End of Boring 17.4'			0	L

IO NINTH	AVENUE,	8TH FLOOR,	NEW YORK	Na 19901	i. park Edgewater 45 River Road				SHEET FILE NO.	41.0161318.00)
NGINEER	S AND SCI	ENTISTS	•		Edgewater New Jerse	ву			CHKD BY		
RING CO.		Summit Drilling			BORING LOCATION	See Exploration	Location P	lan			
REMAN		Travis		•	GROUND SURFACE ELEV.			DATUM			•
A ENGINE	ED	D. Salerno		•	DATE START			DATE END	10/26/06		•
A CHOINE		D. GBIOTIO									·
MPLER: G	Seoprobe TM - 2	diameter, 48-in	ch long, clear ac	state liner, installe	d with a hydraulic hammer.				-		
DEPTH	ļ	SAMPLE	· · · · · · · · · · · · · · · · · · ·	1	AMPLE DESCRIPTION	STRATU		EQUIPM		FIELD	R
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	BURI	MISTER CLASSIFICATION	DESCRIPT	IION	INSTAL	LEO	TESTING (PPM)	к
		48/32	0-4	Black f-c SAND,	some Silt (trace hard pitch, trace		-			0	
				brick).						0	
										0	
	ļ					FILL		1		0	
²	1 1					,,,,,		<u> </u>			
			 							0	
		<u></u>	 					ĺ		0	
		<u> </u>						ĺ		0	1
4		 				 		<u> </u>			<u> </u>
		<u> </u>		EOB @ 4'.							
	1									ł	l
	1							Ì			l
6											
	1			1		ŀ					
				1							
			<u> </u>	1							1
_								1			
* —	 	-		1							
			 	-		1					ŀ
	1			-		1					
			<u> </u>	ł							
10	_	<u></u>	<u> </u>	1							ĺ
			<u> </u>]		ļ				1	ļ
]				ļ			1
	1					1					
12				1							
	1			1		1					1
	1		1	1							
			 	1						ŀ	
			<u> </u>	1						ł	l
14	-		 	1							
			 	-							
				-							1
			<u> </u>	_				ł			
16				<u> </u>		<u> </u>					L
EMARKS:											
	1. Sample t	aken at 3-4' at 09	50 for PP+40.								
	•										
					INDARY BETWEEN SOIL TYPES; TR						

BORING NO. GZA-103

GZA (A GEOENVIRONMENTAL OF NEW YORK NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT	· · · · · · · · · · · · · · · · · · ·	REPOR	T OF BORING	NO.	GZA-104		
						I.park Edgewater		1		EET	1 of 1	
ENGIN!	FERS AN	ID SCIENTIS	TS			45 River Road	·	†	FILE		41.0161318.00 DW	,,, ,
			· · · · · · · · · · · · · · · · · · ·	<u> </u>	1	dgewater, New Jerse	NG LOCATION	<u>l</u>			ration Location Plan	
BORING FOREMA	•	Summit Drilling Denis Crayon			-	1	URFACE ELEV.		DAT		reacti Eorgadii Fidii	
GZA ENG	•	Meredith Hayes	and Danielle S	alerno	-	1	DATE START		DATE E		10/16/06	
	-				_				•			
SAMPLE	R: UNLES	S OTHERWISE	NOTED, SAMP	LER CONSISTS OF	_			GROUNI	DWATER READ	ING	s	
A 2" SPL	IT SPOON	DRIVEN USING	A 140 lb. HAM	MER FALLING 30 IN		DATE	TIME	WATER	CASING		STABILIZATIO	ON TIME
CASING	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300 lb								
HAMMES	R FALLING					ļ	ļ					
CASING	T		OTHER 3 3/4"				SAMPLE DES	CEIDTION	<u> </u>	R	STRATUM	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"	BU	R MISTER CLA			ĸ	DESCRIPTION	FIELD TESTING (PPM)
			24/10	0-2	12	Gray-brown, m-c SA	ND. trace f Grav	rel.				0
			<u> </u>		18	1	,					
	 	S1				1						
	 	1			9	1			1			1
2.0 -					9	1			1			1
I	ļ	1	24/13	2-4	18	Brown f-m SAND, lit	tle Silt, trace f G	iravel (brick).			FILL	24
l		S2			14	4						0
l	L				12				1			
4.0	Γ				7				1			1
-			24/16	4-6	,	Gray f-m SAND, sor	ne Silt. trace f G	ravel.	١,			
1		1	27/10	- 12	5	1			2			
İ	 	S3							-			
1		-			4				Į.			٥
6.0	ļ				4							!
1]			<u> </u>	EOB @ 6'.			1			
	1											
1		1							į			Į
8.0		1										
-			 									
	-	┨			 	-					ı	
		4				4			1			
		1				4						
10.0					1							
1	1											
		1				1						
I	—	1				1						1
I	-	1				1			l		ļ	1
12.0	-					1						1
		4				4						
1	ļ]				4						
1	L]			<u> </u>	1						
14.0												
	GRANULA	R SOILS	1 .	COHESIVE SOILS	REMARKS:							
1	SLOWS/FT		j.	OWS/FT DENSITY	1	n at 4-4.5' at 1025 for	PP+40.				-	
0-4		RY LOOSE		VERY SOFT	1	observed at 4.5-5'.						
1		LOOSE	2-4	SOFT								
4-10				M. STIFF								
10-30		NUM DENSE	4-8									
30-50		DENSE	8-15	STIFF	}							
>50	VE	RY DENSE	15-30	V. STIFF								
			>30	HARD	<u> </u>							
NOTES	i:			EPRESENT APPROXIMATE I								
		2) WATER LE	VEL READINGS	HAVE BEEN MADE AT TIME	S AND UNDER C	ONDITIONS STATED	, FLUCTUATIO	NS OF GROUNDY	VATER			
	1	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THOSE P	RESENT AT THE	TIME MEASUREMEN	TS WERE MAD	E			r 	
GZ\)										BORING NO.	GZA-104

	ZA GEOENVIRONMENTAL OF NEW YORK O NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001				PROJECT		REPOR	T OF BORING NO. SHEET			
l						45 River Road	rang tigar regar yang bir Tanggar yang bir yang	,	FILE NO.		
ENGINE	EERS AN	D SCIENTIS	TS			dgewater, New Jerse		<u> </u>	CHKD BY	DW	
BORING	co.	Summit Drilling			-	1		See Exploration I			
FOREMA	•	Denis Crayon		·	-	GROUND S	URFACE ELEV.		DATUM		-
GZA ENG	3.	Danielle Salern	0		-		DATE START	10/16/06	DATE END	10/10/00	-
SAMPLE	R: UNLES	OTHERWISE	NOTED, SAME	PLER CONSISTS OF			·	GROUNE	WATER READING	3S	
1				IMER FALLING 30 IN		DATE	TIME	WATER	CASING	STABILIZA	TION TIME
1			IOTED, CASING	DRIVEN USING A 300 Ib							
CASING	R FALLING	24 IN.	OTHER 3 3/4"	HSA			 				
	CASING			SAMPLE			SAMPLE DESC		R	STRATUM	FIELD TESTING
<u> </u>	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BL	IRMISTER CLAS	SSIFICATION	К	DESCRIPTION	(PPM)
1			6/0	0-2	4	No recovery					
1		S1			50/0	HSA to 4"					
İ					ļ	<u> </u>					
2.0					ļ	4				1	
•					_						
			L			_			1	[
									1		
4.0		_									
-						EOB @ 4' (refusal o	n concrete),		1.		
						1					}
											1
6.0	+				 	1					
	-			<u> </u>	 	1					
i	<u> </u>	Į			+	1]		
1		1		<u> </u>	 	1					
8.0	-				<u> </u>	4					
1		ł		ļ		4					
1	ļ		<u> </u>		<u> </u>	┧					
		ļ	<u> </u>		<u> </u>	4				ļ	
10.0						4					
						1					
1]					
						_					
12.0]									1
'											
		1							-		
1		1] .			1		
		1				1					1
14.0	GRANULA	9 5011 5	 	COHESIVE SOILS	REMARKS:						
ı	GRANULA BLOWS/FT		1	OWS/FT DENSITY							
04		RY LOOSE	<2	VERY SOFT	1. Moved borel	hole.					
4-10		LOOSE	2-4	SOFT							
10-30		IUM DENSE	4-8	M. STIFF	1						
30-50		DENSE	8-15	STIFF							
1			15-30	V. STIFF							
>50	VE	RY DENSE	>30	HARD	1						
NOTES	·.	1) STRATIFIC		REPRESENT APPROXIMATE	BOUNDARY BETT	WEEN SOIL TYPES	TRANSITIONS	MAY BE GRADUA	L.		
NOTES).			S HAVE BEEN MADE AT TIM							
_				R FACTORS THAN THOSE F							
GZ	3	MAT OCCUR	DOE TO CIME	KIAUIUNG IMMI INUGE P		. DAE MENGONEME	THE PERMIT			BORING NO	G7A-105A

GZA (EOEN	VIRONME	NTAL OF	NEW YORK YYORK, NY 10001		PROJECT		REPOR	T OF BORIN		GZA-105B 1 of 1	
440 NIN	II H AVEI	NUE, 181MF	LUUR, NEV	TORK, NY 10001		45 River Road				E NO.	41.0161318.00	
ENGIN	ERS AN	D SCIENTIS	TS	*		dgewater, New Jerse	1.		СН	KD BY	DW	
BORING	CO.	Summit Drilling						See Exploration.	ocation Plan	· · · · · · · · · · · · · · · · · · ·		
FOREMA	•	John Murtha			-	GROUND SU	JRFACE ELEV.		. D	ATUM		•
GZA ENG).).	Meredith Hayes			_	}	DATE START	10/18/06	DATI	E END	10/18/06	
										,,		
K				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	GROUND! WATER	WATER REA CASIN			TION TIME
1							,	·	,		· · · · · · · · · · · · · · · · · · ·	
	UNLESS R FALLING		OTED, CASING	DRIVEN USING A 300 Ib								
CASING			OTHER 3 3/4"	HSA			<u> </u>		<u> </u>			
DEPTH	CASING			SAMPLE	T		SAMPLE DESC			R	STRATUM	FIELD TESTING
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*	BU	RMISTER CLA	SSIFICATION	 	К	DESCRIPTION	(PPM)
1			24/12	0-2	7	Brown-black SAND,	some f Gravel,	little Silt (hard pitc	h			0
		S1			4	material throughout,	strong odar).					0
					3]						
2.0					4							
-			24/15	2-4	2	Black f-c SAND, son	ne f Gravel, little	silt.				0
·	-		247.0		2	1	,				FILL	,
ł		\$2				1]	7122	
					2	†						°
4.0					2	+						
Į.			24/6	4-6	2	Black f-c SAND, little	e Sift.			1		0
ļ	L	S3			3							}
					6							1
6.0					4	1						
5.0					T	500 0 S				1		
1	-	ł			-	EOB @ 6'.						
	<u> </u>	į.			-	4				ł		
1	<u></u>					4						
в.0						4				ł		İ
				1								
1		1										
		1				1						
1	1	1			 	1					,	
10.0	 	<u> </u>	1			-						
						4						
i	L	ļ				1				ł		
			L			<u>}</u>				1		
12.0	Γ					_						ļ
Ι.	Ť T]						
1	—	1				1				}		
1	— —	1			<u> </u>	†				ļ	1	
	-	1	<u></u>			4				1	1	
14.0	1	<u> </u>	<u>ļ</u>	<u> </u>		<u></u>					L	i
	GRANULA	R SOILS	1	COHESIVE SOILS	REMARKS:							
L!	BLOWS/FT	DENSITY	BL	OWS/FT DENSITY	1. Sample take	n at 4.5-5' at 0810 for	benzene.					
0-4	VE	RYLOOSE	< 2 ⋅	VERY SOFT								
4-10		LOOSE	2-4	SOFT	1							
10-30	MED	IUM DENSE	4-8	M. STIFF								
	30-50 DENSE 8-15 STIFF											
>50 VERY DENSE 15-30 V. STIFF												
1	>30 HARD											
NOT-	·.	4) QTDATIES		REPRESENT APPROXIMATE	BOUNDARY RET	WEEN SOIL TYPES	TRANSITIONS	MAY BE GRADU	AL.			
NOTES	٠.			S HAVE BEEN MADE AT TIM								
_				R FACTORS THAN THOSE F								
	<i>a</i>	MAY OCCUR	THE IOUIHE	K FACIORO IMAN INOSE P	MEGERIAL IND	THRE MEASUREME	AIN SATUE MINI					

GZA-105B

(ZI)

GZA (A GEOENVIRONMENTAL INC. O NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 1000					PROJECT		REPOR	T OF BORING N		
A-10 IAIL	THI WATE	102, 10,111	20011, 11211	TOTAL TOTAL		45 River Road	· · · · · · · · · · · · · · · · · · ·		FILEN		
ENGIN	ERS AN	D SCIENTIS	TS			Edgewater, New Jer	SB y		CHKD	DW DW	
BORING	co.	Summit Drilling					BORING LOCATION	See Exploration L	ocation Plan		
FOREMA	N .	Denis Crayon			•	GROU	ND SURFACE ELEV.		DATU	M	
GZA ENG	i	Danielle Salerno)		•		DATE START	10/13/06	- DATE EN	ID 10/13/06	
											
1				LER CONSISTS OF MER FALLING 30 IN		DATE	TIME	GROUNDV WATER	VATER READING CASING	SS STABILIZATIO	NTIME
l										T	
1			OTED, CASING	DRIVEN USING A 300	l ib	 			 		
	FALLING										
CASING	CASING		OTHER 3 3/4"	SAMPLE			SAMPLE DESCRI	PTION	R	STRATUM	FIELD
Jer III	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"		BURMISTER CLASSI		к		TESTING
			24/15	0-2	6	Brown f-m SAND, littl	le Silt, trace f Gravel (organic material,			
					10	bottom 4" brick)					
l		\$1							ŀ		
1					30	1			[°
2.0 -					60	1			ļ		
			9/9	2-4	20	Brown 1-m SAND, so	me Sitt (concrete in bo	ottom 4.5" of spoor	n).	FILL	0
1		S2			50/3	HSA to 4'.			ŀ	1	0
]			l۱		
4.0						1					
				4.0			Ditt formuste in be				
			24/5	4-6	60	Brown 1-m SAND, SO	me Silt (concrete in bo	mom 4" or speen).			0
1		S3	<u></u>		18	1			ļ	İ	
					16	1			ŀ		
6.0			ļ		5						
1 -				l		EOB @ 6'.	•	,	ŀ		
1											
ł	<u> </u>	}		l		1			-		
	<u> </u>					4					ŀ
8.0	<u> </u>					4			1		
ı	}	j				_					
i									-		
1		1				1					
		1				1					
10.0	 					-				†	i
1		1									1
						_			1		
12.0]							1		
'						1					
	-	t				1			ļ		
	<u> </u>	1		 		1					
		4				-			ļ		
14.0						<u> </u>					
	GRANULA	RSOILS	сон	ESIVE SOILS	REMARKS:						
L	LOWS/FT	DENSITY	BLOW	S/FT DENSITY	1. Sample take	n at 3-4" at 15:25 for T	PH.				
0-4	-	RY LOOSE	<2	VERY SOFT	1						
4-10		LOOSE	2-4	SOFT	1						
10-30		IUM DENSE	4-8	M. STIFF							
			1								
30-50		DENSE	8-15	STIFF							
>50	VE	RY DENSE	15-30	V. STIFF	1						
<u> </u>			>30	HARD	1						
NOTES	:	-		EPRESENT APPROXI							
		2) WATER LE	VEL READINGS	HAVE BEEN MADE A	T TIMES AND U	NDER CONDITIONS	STATED, FLUCTUATION	ONS OF GROUND	DWATER		
	N	MAY OCCUR	DUE TO OTHE	R FACTORS THAN TH	OSE PRESENT A	AT THE TIME MEASU	REMENTS WERE MA	DE		P	
GZ	y			_						BORING NO.	GZA-108A

GZA (A GEOENVIRONMENTAL INC. NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 1000					PROJECT		REPOR	T OF BORING NO SHEET		
44 0 NIN	IH AVE	NUE, 10111 F	LUUR, NEW	10KK, K1 1000		45 River Road	 	,	FILE NO		
ENGIN	ERS AN	D SCIENTIS	TS			Edgewater, New Jer	SAU		СНКО ВУ		
BORING		Summit Drilling	· · · · · · · · · · · · · · · · · · ·				BORING LOCATION	See Exploration L	ocation Plan	<u> </u>	
FOREMA	•	Denis Crayon			•	GROU	ND SURFACE ELEV.		DATUN		
GZA ENG	-	Danielle Salerne			•		DATE START		DATE END		_
	•	Daniello Calenti	·		•				•		
SAMPI F	2 UNI ESS	OTHERWISE	NOTED, SAMP	LER CONSISTS OF				GROUNDY	ATER READINGS)	
4				MER FALLING 30 IN		DATE	TIME	WATER	CASING	STABILIZATION TI	ME
CASING:	UNLESS	THERWISE N	OTED, CASING	DRIVEN USING A 300) ib				`		
HAMMER	FALLING	24 IN.									
CASING	SIZE:		OTHER 3 3/4"				l	<u> </u>			
DEPTH	CASING	emonu No		SAMPLE DEPTH (FT)	BLOWS/6"	{	SAMPLE DESCRI BURMISTER CLASSI		R	STRATUM DESCRIPTION	FIELD
 	BLOWS	SPOON NO	PEN/REC	DEFINITION	DECITOR		BOINGING I BY OBYGON	i ioanioje		DEGGRAW (NO.	TESTING
1						HSA to 2'.			Ī		
1		S1							1		
1									1		
2.0											
<u> </u>			n	3.4	47	Pmum 4 - 84415	ma Silt			E11.1	_
1			24/18	2-4	. 17	Brown f-m SAND, so	and out.			Fill	0
1		S2			7	1				1	٥
1					9	1			1		0
4.0	L				7						
i -				_		EQB @ 4'.			}		
						1					
i i	<u> </u>	S3				1				}	1
	 				-	1			ŀ		
6.0			ļ			Į			l		
					ļ	1					
]					
1		}				1			1		
1	-					†			i		
8.0	<u> </u>		 	<u> </u>		1			ŀ		
1	<u> </u>	ļ				4					
1											
	<u> </u>	j]					
10.0]				:					
-						1					
1		1		1		1					
1		ł		 	 	1				1	
1	<u></u>	4				1			ŀ		
12.0						1					
1			<u></u>	<u> </u>		1				1	1
]									
1		1			1	1					1
1	-	1			 	1					
14.0	1	Ļ				I				<u> </u>	
1	GRANULA	RSOILS	1	ESIVE SOILS	REMARKS:						
	LOWS/FT	DENSITY	BLOW	S/FT DENSITY	1. Sample take	n at 3-4' for PP+40.					
0-4	VE	RY LOOSE	<2	VERY SOFT	1						
4-10		LOOSE	2-4	SOFT	1						
10-30	MED	IUM DENSE	4-8	M. STIFF						•	
30-50		DENSE	8-15	STIFF							
>50		RY DENSE	15-30	V. STIFF							
⁻³⁰	VE		1	HARD							
			>30		MATE DOUBLE	V DETAILED OO T	VOES TRANSPORT	MAY BE COAS:	A1		
NOTES	:	•		EPRESENT APPROXI							i
				HAVE BEEN MADE A					OWATER		
GZ	ð	MAY OCCUR	DUE TO OTHE	R FACTORS THAN TH	OSE PRESENT A	THE TIME MEASU	REMENTS WERE MA	NDE			
J. J.	ÿ									BORING NO.	GZA-106B

GZA (SEOEN	VIRONME NUE, 18TH F	NTAL INC	YORK, NY 10001	,	PROJECT i.park Edgewater		REPOR	T OF BORING NO. SHEET	GZA-108C 1 of 1	
						45 River Road			FILE NO.	41.0161318.00	
ENGINE	EERS AN	D SCIENTIS	TS			Edgewater, New Jer	sey	<u> </u>	CHKD BY	DW	68.000
BORING	co.	Summit Drilling					BORING LOCATION	See Exploration L	ocation Plan		
FOREMA	N.	Denis Crayon				GROU	ND SURFACE ELEV.		DATUM		_
GZA ENG	3 . ,	Danielle Salemo)				DATE START	10/20/06	DATE END	10/20/06	-
1				LER CONSISTS OF MER FALLING 30 IN		DATE	TIME	GROUNDW WATER	ATER READINGS CASING	STABILIZATION TI	ME
CASING.	LINE COD	OTHEDWICE M	OTED CASING	DRIVEN USING A 300	r Ib		T	T			
	R FALLING		JIED, CASING	DRIVEN COMO A SOC	, 10						
CASING			OTHER 3 3/4"	HSA							
	CASING			SAMPLE			SAMPLE DESCRI		R	STRATUM	FIELD
ļ	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"		BURMISTER CLASSI	FICATION	K	DESCRIPTION	TESTING
I						HSA to 4'.					1
1		S1				1					1
1		91				1			1		
L.	 					1			Ì		
2.0 -	 					1				1	1
						1				FILL	
		\$2	<u> </u>			1				1	
1						J					
4.0						1					
 -			0.44	4.5		Brown (54315	ma Silt (annovete in h	ottom di od casaci			
			24/12	4-6		jorown t⊷m SAND, so	ome Silt (concrete in bo	outom 4" of spoon).			°
ı	<u> </u>	S3		ļ	ļ	4			1		0
1						1]		
6.0											
'	[
1		1				1				1	
		1			<u> </u>	1					
1		1			ļ	1					
8.0					<u> </u>	1			-	1	
1]	1	<u> </u>]				1	
1		1				1				}	1 .
1	-	1			 	1				1	1
1	<u></u>	-	 			1				1	1
10.0		<u> </u>		ļ	ļ	4				1	1
				<u> </u>]					
Į		1								1	
1		1			[Ī	
1		1			<u> </u>	1					
12.0	+	 	 			1				}	
		4	<u></u>	-	<u> </u>	-					
		1			ļ	4				!	İ
]		1	<u> </u>					1	
14.0]				1				1	-
	ODAL!	D CON C		ESIVE SOILS	REMARKS:						• •
1	GRANULA		Í		ł	n at A E.El for bases					
	BLOWS/FT			S/FT DENSITY	i. sample take	n at 4.5-5' for benzene	··				
0.4	VE	RY LOOSE	<2	VERY SOFT]						
4-10		LOOSE	2-4	SOFT							
10-30	MED	IUM DENSE	4-8	M. STIFF							
30-50		DENSE	8-15	STIFF	}						
>50		RY DENSE	15-30	V. STIFF	Ì						
	**		>30	HARD							
					MATE BOUNDA	V BETWEEN OO"	VDEC TRANSITIONS	MAY DE CRASI	Λ)		
NOTES	:	•		EPRESENT APPROXI							i
1				S HAVE BEEN MADE A					WATER		
GZ		MAY OCCUR	DUE TO OTHE	R FACTORS THAN TH	DSE PRESENT A	IT THE TIME MEASU	REMENTS WERE MA	NDE			
- CT.	¥									BORING NO.	GZA-106C

BLOWNS PROUNT PRIVATE DEPTH (FT) BLOWSYST BURNASTER CLASSING K DESCRIPTION	GZA G	EOEN	IVIRONME	NTAL OF	NEW YORK		PROJECT		REPOR	T OF BORIN	, ' · 	GZA - 108	
CHANGE Color Col	40 NIN	TH AVE	NUE, 18TH	LOOR, NEW	YORK, NY 10001				:				
CREAM December Description DRILLING TRIG SORNING LOCATION Sea equiptoration boding boattom prins	MONE	EDC AN	ID COENTIS	Te		EA							
CREAM Abrill TYPE OF DRILING MAS Mercell Holyes and Darkins Bulletin Market Mar	NOINE	ENG A					Marie de la companya de la companya de la companya de la companya de la companya de la companya de la companya	ه . در	<u>L</u>				<u>4</u>
SEA PURIS						-	Į.					boring location plan.	· · · · · · · · · · · · · · · · · · ·
AMPLER: UNLESS OTHERWISE NOTED, SAMPLE CONSISTS OF						HAS				-	_		_
Commonweal Using A 140 B. HAMBER FALLING 30 IN	SZA ENG	i.	Meredith Hayes	and Danielle S	alemo	-	DATES	START	10/20/06	- DAII	E END _	10/20/06	_
Commonweal Using A 140 B. HAMBER FALLING 30 IN									-000	**********	05 4011	00	
AMAMER A							DATE	TIME					TIME
MAMERIA PLANCY 24 No. March Marc	ASING:	UNLESS	OTHERWISE N	OTED. CASING	DRIVEN USING A 300	!b				[Т		·····
SAMPLE S													
BLOWS SPOON NO PRINTEC DEPTH (FT) BLOWSTPT BLOWSTPT CLASSIFICATION K DESCRIPTION				OTHER 3 3/4"	HSA								
24/24 0-2 4 Gray SILT, (IV) then black field SIAD and hard created pitch FILL	DEPTH	CASING					4						FIELD
S1		BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*	BURMIS	TER C	LASSIFICATION		K	DESCRIPTION	TESTING
S1				24/24	0-2	4		ack f-c	SAND and hard	rushed pitch		FILL	0
10.0			-			4	material, trace Silt.						375
10			31			5]						696
10	.		1			1	1						1
S2	².0 ⊣	!				1 8	1						674
10			Į	24/16	2-4	3	Black f-c SAND, some	hard p	pitch material.		1		21.6
10.0			S2			3]						21.6
10.0			~			4							37.1
10.0	. 1		1			† — — — — — — — — — — — — — — — — — — —	1						37.1
S3			 				1						
10.0			4	24/20	4-6	5	Black f-c SAND, some	hard p	pitch material.				0
3.0			S3			5							667
24/14						7							650
24/14 6-8 10 10 12 10 12 10 12 10 12 10 10	80		1			4]						650
S4	_						1						
8.0 12	<u> </u>		1	24/14	6-8	10	Black m-c SAND, little	Silt.			ŀ		NA NA
8.0		<u> </u>	S4			10	ļ						NA.
10.0 S5]	<u> </u>		12	j						NA.
10.0 S5	8.0					9							- NA
10.0 S5	-			24/12	9.10								
10.0			1	24/12			Black f-c SAND, little	Slit. (H	ard pitch material	last 4")			NA NA
10.0			S5			1-1-	4						NA NA
24/6 10-12 4 Black f-c SAND, little silt, little crushed hard pitch material. 2 1 2 2/24 12-14 3 Black f-c SAND, little hard pitch material (first 6") changing to brown, Silty CLAY and PEAT. SILTY CLAY 3 Black f-c SAND, little hard pitch material (first 6") changing to brown, Silty CLAY and PEAT. SILTY CLAY 1 1 GRANULAR SOILS COHESIVE SOILS REMARKS: BLOWS/FT DENSITY BLOWS/FT DENSITY 1 COOSE 2 VERY SOFT 4-10 LOOSE 2-4 SOFT 10-30 MEDIUM DENSE 4-8 M. STIFF 30-50 VERY DENSE 15-30 V. STIFF >50 VERY DENSE 15-30 V. STIFF >30 WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER			1			3	4						NA.
12.0 S6 2 14.0 S7 S1LTY CLAY 14.0 GRANULAR SOILS COHESIVE SOILS BLOWS/FT DENSITY BLOWS/FT DENSITY 1	10.0					20							NA.
12.0 S6 2 14.0 S7 S1LTY CLAY 14.0 GRANULAR SOILS COHESIVE SOILS BLOWS/FT DENSITY BLOWS/FT DENSITY 1	_			24/6	10-12	4	1						NA.
12.0 24/24 12-14 3 Black f-c SAND, little hard pitch material (first 6") changing to brown, Silty CLAY and PEAT. SILTY CLAY 14.0 GRANULAR SOILS COHÈSIVE SOILS BLOWS/FT DENSITY BLOWS/FT DENSITY BLOWS/FT DENSITY 1. End of boring at 14". C-4 VERY LOOSE 4-4 SOFT 10-30 MEDIUM DENSE 4-8 M. STIFF 30-50 DENSE 8-15 STIFF >-50 VERY DENSE 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER			7	27410	75.72		Black f-c SAND, little	Silt, litt	ie crushed hard p	itch material.	1		
12.0 24/24 12-14 3 Black f-c SAND, little hard pitch material (first 6") changing to brown, Silty CLAY and PEAT. S7 1 GRANULAR SOILS COHESIVE SOILS BLOWS/FT DENSITY BLOWS/FT DENSITY 1			- S6			2	1						NA NA
24/24 12-14 3 Black f-c SAND, little hard pitch material (first 6") changing to brown, Silty CLAY and PEAT. SILTY CLAY GRANULAR SOILS GRANULAR SOILS BLOWS/FT DENSITY D-4 VERY LOOSE 4-10 LOOSE 4-10 LOOSE 4-18 M. STIFF 10-30 MEDIUM DENSE 30-50 DENSE 3-15 STIFF 30-50 VERY DENSE 15-30 V. STIFF 30-50 VERY DENSE 15-30 V. STIFF 30-30 HARD NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER		<u></u>	4			1 1	1						NA.
14.0 STATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2 NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2 brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and PEAT. SILTY CLAY 1 co brown, Silty CLAY and PEAT. 1 co brown, Silty CLAY and Peat. 2 co brown and Peat. 2 co brown and Peat. 2 co brown and Peat. 2 co brown and Peat. 3 co brown and Peat. 4 co brown and Peat. 5 co brown and Peat. 5 co brown and Peat. 5 co brown and Peat. 5 co brown and Peat. 5	12.0			<u> </u>	-	1 1	1						NA.
14.0 S7 GRANULAR SOILS GRANULAR SOILS BLOWS/FT DENSITY BLOWS/FT DENSITY O-4 VERY LOOSE 4-10 LOOSE 2-4 SOFT 10-30 MEDIUM DENSE 4-8 M. STIFF 30-50 DENSE 8-15 STIFF >50 VERY DENSE 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER	_			24/24	12-14	3	Black f-c SAND, little	hard pi	tch material (first	6") changing			NA NA
1			1									SII TV CI AV	NA NA
14.0 2 2 1 1 2 2 1 1 2 2			S7		 		1					SILT FOLAT	- 1
GRANULAR SOILS COHESIVE SOILS REMARKS:			4		 	 1	1						NA.
BLOWS/FT DENSITY BLOWS/FT DENSITY 1. End of boring at 14".	14.0	<u> </u>	<u> </u>	ļ	L	2	<u> </u>				11		NA NA
BLOWS/FT DENSITY BLOWS/FT DENSITY 1. End of boring at 14'.	(GRANULA	RSOILS	CO	HESIVE SOILS	REMARKS:							
0-4 VERY LOOSE	В	LOWS/FT	DENSITY	BLOV	VS/FT DENSITY	1. End of bo	ring at 14'.						
4-10 LOOSE 2-4 SOFT 10-30 MEDIUM DENSE 4-8 M. STIFF 30-50 DENSE 8-15 STIFF >50 VERY DENSE 15-30 V. STIFF >30 HARD NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER				<2	VERY SOFT								
10-30 MEDIUM DENSE 4-8 M. STIFF 30-50 DENSE 8-15 STIFF >50 VERY DENSE 15-30 V. STIFF >30 HARD NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER													
30-50 DENSE 8-15 STIFF >50 VERY DENSE 15-30 V. STIFF >30 HARD NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER	l												
>50 VERY DENSE 15-30 V. STIFF >30 HARD NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER				1		1							
>30 HARD NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER	30-50		DENSE	8-15	STIFF								
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER	>50	VE	RY DENSE	15-30	V. STIFF								
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER				>30	HARD							·	
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER	NOTES:		1) STRATIFIC	ATION LINES R	EPRESENT APPROXIM	ATE BOUND	ARY BETWEEN SOIL 1	YPES,	TRANSITIONS N	MAY BE GRA	DUAL.		
·												ER	
ANY OCCUP DUE TO OTHER EACTION THOSE PRESENT AT THE TIME MEACHIDEMENTS WIEDE MADE													
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE BORING NO. G	GZN)	MAT ULCUK	POE 10 O INEI	VINOTORS TRANSTITU	OF LUESEN!	A. THE HIVE MEMOU	. cervici	TILCE MAD	-	Γ	BORING NO	GZA-108

GZA (EOEN	VIRONME	NTAL OF	NEW YORK		PROJECT		REPOR	T OF BORING NO	VICTOR 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
440 NIN	TH AVE	NUE, 18TH F	LOOR, NEW	YORK, NY 10001		i.park Edgewater 45 River Road			SHEE FILE:NO	* p	
ENGIN	ERS AN	D SCIENTIS	rs	$t = e^{-\frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)}$		Edgewater, New Jersey	· · · · · · ·		CHKD B		
BORING	CO	Summit Drilling			l		NG LOCATION	See Exploration L	ocation Plan	76	
FOREMA	•	Denis Crayon			•	i	RFACE ELEV.		DATUN	1	
GZA ENG	ì. '	Danielle Salerno)		•		DATE START	10/16/06	DATE EN	10/16/08	
<u> </u>					_						
1				LER CONSISTS OF		DATE	TIME	GROUN WATER	DWATER READIN CASING	gs Stabilization	I TIME
A Z SPL	I SPOON	DRIVEN USING	A 140 ID. FIANI	MER FALLING 30 IN		DAIL	TIVIC	WAILK	CADING	O TABLEZATION	, 1,145 <u>L</u>
CASING:	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300 lb							
HAMMER	RFALLING	24 IN.									
CASING			OTHER 3 3/4"			<u></u>	SAMPLE DESC	PIDTION	R	STRATUM	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"	-	RMISTER CLAS		K		FIELD TESTING
			24/13	0-2	3	Brown-black m-c SAN	D. little Silt. tra	ce f Gravel (brick)			0
					35		-,				
		S1				1					
	 -		_		18	1					
2.0	 					1	O fabrilion - 1			<u> </u>	
1	 		24/10	2-4	5	Black-brown m-c SAN		rr)			0
		S2			10	(Hard pitch material in	middle 2").		1	FILL	0
1					10	1					
4.0 -					12	-{					
			24/17	4-6	30	Black m-c SAND, son	ne f Gravel (har	d pitch material in			0
1		S3			16	top 2").			2		0
}					20	_			1	1	0
6.0					10						
}						EOB @ 6'.			ļ		
1]					
										•	
8.0	<u> </u>	1				1					
-						1					
		1				1					
1		1				1					
1	-	1				1			- 1		
10.0			<u> </u>			1					
1	<u> </u>	1			 	1					
1	<u> </u>	ł			 	1			ľ		
		4	ļ		 	-				İ	
12.0			ļ		 	-					
		1			ļ	4				1	
1		4			ļ	4				}	
1		1				4				1	
14.0	1			<u> </u>		1					
]	GRANULA	R SOILS	c	OHESIVE SOILS	REMARKS:						
	LOWS/FT	DENSITY	BLC	WS/FT DENSITY	1. Water table	observed at 5-5.5'.					
0-4	VE	RY LOOSE	<2	VERY SOFT	2. Sample take	an at 4.5-5' at 11:15 for	PP+40, pH, TP	н.			
4-10		LOOSE	2-4	SOFT							
10-30	MEC	IUM DENSE	4-8	M. STIFF							
30-50		DENSE	8-15	STIFF							
>50	VĒ	RY DENSE	15-30	V. STIFF							
			>30	HARD	<u> </u>						
NOTES	:	1) STRATIFIC	ATION LINES R	EPRESENT APPROXIMAT	E BOUNDARY B	ETWEEN SOIL TYPES	, TRANSITION	S MAY BE GRAD	JAL.		
		2) WATER LE	VEL READINGS	HAVE BEEN MADE AT TI	MES AND UNDE	R CONDITIONS STATI	D, FLUCTUAT	TONS OF GROUN	DWATER		
	<i>a</i>	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THOSE	PRESENT AT TI	HE TIME MEASUREME	NTS WERE M	ADE			
GZ)									BORING NO.	GZA-109

GZA (GEOENVIRONMENTALOF NEW YORK			NEW YORK		PROJECT		REPOR	T OF BORING N	Ö.	GZA-110	
440 NIN	TH AVE	IUE, 18TH F	LOOR, NEW	YORK, NY 10001		Lpark Edgewater			SHEE	_	. , 1 of 1	
l						45 River Road			FILEN	7	41.0161318.00	
ENGIN	EERS AN	D SCIENTIS	TS		<u> </u>	Edgewater, New Jer	sey		CHKO E	BY _	DW	,,,,,,,
BORING	co.	Summit Drilling			•		BORING LOCATION					
FOREMA	•	Denis Crayon			•	GROU	IND SURFACE ELEV.		DATU	_		
GZA ENG	·	Danielle Salerno	<u> </u>		•	}	DATE START	10/16/06	DATE EN	ND _	10/16/08	
								CDO INDI	WATER READING			
				LER CONSISTS OF MER FALLING 30 IN		DATE	TIME	WATER	VATER READING CASING	9.9	STABILIZATION TIME	!
•			OTED, CASING	DRIVEN USING A 300 lb						\exists	T	
HAMMER CASING	R FALLING		OTHER 3 3/4"	HCV						十		
	CASING		OTTICIT SUFF	SAMPLE			SAMPLE DESCRI	PTION	R		STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*		BURMISTER CLASS	FICATION	K	4	DESCRIPTION	TESTING
			24/10	0-2	7	Brown m-c SAND, III	tte Silt, trace f Gravel	(3" hard pitch				0
		S1			33	material in middle of	spoon, concrete in bo	ttom 4" of spoon).				0
		31			35	1						
2.0					35	1			l		FILL	
[*] " -			00			Brann	S been formal them.	on Of horse wheth	nterion)			_
	 -		23/16	2-4	20	prown-red f-m SANI	O, trace f Gravel (botto	ım ∠" naro pach mi	acertzu).			0
1		S2			40	1				-	1	0
1					45	1						0
4.0					50/5	.			1,2	٢.		
						EOB @ 4'.						
]				-		
ł	Ī					1						
l.,					<u> </u>	1						
8.0	 					-			Ì	-		
	<u> </u>				 	4						
I	<u></u>		,		ļ	4			į.	1		
ł	<u> </u>								İ			
8.0]					j			}	-		
ļ ⁻	,]			j	- 1		
		1				1				-		
		ł				1			İ			
	 			 		1						
10.0			ļ		<u> </u>	4						
1	<u></u>	1	ļ		<u> </u>	4				- 1		
1	<u></u>]				1				- 1		
]			1]						
12.0		1				7			İ			
[.	— —					7				- 1		
1	_	1				1				-		
1	-	{			 	1				ļ		
1	<u> </u>	ł			 	-1			ŀ			
14.0	<u></u>	L	<u> </u>	<u> </u>	ļ	1		·			<u>.</u>	
ı	GRANULA	RSOILS	co	DHESIVE SOILS	REMARKS:							
	BLOWS/FT	DENSITY	BLO	WS/FT DENSITY	2. Water table	observed at 4-4.5'						
0-4	VE	RYLOOSE	<2	VERY SOFT	1. Sample take	n at 3.5-4' at 14:10 for	PP+40, pH, TPH					
4-10		LOOSE	2-4	SOFT								
10-30	MED	IUM DENSE	4-8	M. STIFF								
30-50		DENSE	8-15	STIFF								
>50		RY DENSE	15-30	V. STIFF	i							
1	**	.,	>30	HARD								
NO.75		1) STDATIES		EPRESENT APPROXIMAT	E BOUNDARY R	ETWEEN SOIL TYPE	S. TRANSITIONS MA	Y BE GRADUAI			•	
NOTES) .	•		S HAVE BEEN MADE AT T					TER			
_												
GZ)	MAY OCCUR	DOF 10 OTHE	R FACTORS THAN THOSE	- FREGENIALI	HE HIME MEASURES	NEIA 1-2 AAEKE MWDE			Γ	BORING NO.	GZA-110
	,									1	DONING NO.	

O NINTH	DENVIRO AVENUE, 1	NMENTAL 18TH FLOOR,	OF NEW YORK	YORK NY 10001	PROJECT i-Park Edgewater 45 River Road	REPORT OF BORING NO. GZA-111 SHEET 1 of 1 FILE NO. 41.0181318.00				
GINEER	S AND SCI	ENTISTS			Edgewater, New Jerse	ey e		CHKD BY DW	10.00	
					ting a second control of the second control	<u> </u>	***		- 15	
RING CO.		SUMMIT		•		ON See Boring Location Plan	DATINA			
REMAN		Travis		•	GROUND SURFACE ELE		DATUM	n/a .		
ZA ENGINE	ER	D.Salemo			DATE STAF	RT_10/26/06	DATE END	7/20/06		
MPI FR: G	eoprobe TM - 2	" diameter, 48-in	ch long, clear ac	etate liner, install	ed with a hydraulic hammer.					
DPTH		SAMPLE			SAMPLE DESCRIPTION	STRATUM	EQUIPA	MENT FIEL	D	
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	В	URMISTER CLASSIFICATION	DESCRIPTION	INSTAL	LED TESTI	NG	
		48/13	0-4	3" Concrete.		CONCRETE SLAB		0.0 pp	om	
			<u> </u>	Brown, f-c SAN	D, little Silt, trace Gravel.	FILL			l	
			-					0.0 pp	om	
2	1								ļ	
				i				0.0 pp	om	
]				0.0 pg	om	
4					148, 1, 14 <u>1, 248, 148, 148, 148, 148, 148, 148, 148, 1</u>			0.0 pp		
		<u></u>		E08@4'						
}			<u> </u>							
								Ì		
6	1		ļ							
							1			
						į				
8				1						
				1					ŀ	
			<u> </u>	†		;				
	İ		 	1		 		Į		
		ļ	 	1		İ		Į.		
10	4	<u> </u>		1				ŀ	Ì	
		<u></u>		4		1				
	ļ			4		1				
	1							İ		
12	<u> </u>								- 1	
	ŀ									
	1			1						
	l			1						
14	1		† · · · · ·	1					- 1	
			<u> </u>	-						
			 	-				1		
	j		<u> </u>	4						
16										

BORING NO.GZA-111

GZA (440 NIN	EOEN	VIRONME NUE, 18TH F	NTAL OF LOOR, NEW	NEW YORK YYORK, NY 10001		PROJECT i park Edgewater 45 River Road	REPORT OF BORING NO. SHEET FILE NO.			GZA - 112 1 of 1 41.0161318.00	
ENGIN	EERS AN	ID SCIENTIS	TS		Edg	pewater, New Jersey	1		D BY	DW	
BORING		Summit Drilling		DRILLING RIG	l ·	BORING LOCATION	<u> </u>	See	explora	tion location plan.	i : .
OREMA		John Murtha		TYPE OF DRILLING	HAS	GROUND SURFACE ELEV			ATUM		
GŽA ENG	-	Meredith Hayes			• • • • • • • • • • • • • • • • • • • •	DATE START		DATE	_	10/20/06	-
								•			
				LER CONSISTS OF MER FALLING 30 IN		DATE TIME		JNDWATER F CASING		GS STABILIZATION TII	ME
						 	T	T	Т		
			OTED, CASING	DRIVEN USING A 300	Ю	<u> </u>	<u> </u>				
CASING	R FALLING		OTHER 3,3/4"	HSA					\neg		
	CASING			SAMPLE		SAMPLE (DESCRIPTION	1	R	STRATUM	FIELD
	BLOWS	SPOON NO.	PEN/REC	DEPTH (FT)	BLOWS/6*	BURMISTER	CLASSIFICATION		к	DESCRIPTION	TESTING
			24/24	0-2	30	Asphalt pavement (Concrete	e last 2").		L	ASPHALT PAVEMENT	1.4
		1			15	Brown SILT, little f Sand cha		lack hard	ιГ	FILL	17.3
	 -	\$1				pitch material.	anging anci o to a			7 122	į .
	 			<u> </u>	15	1]			20.6
2.0					18	4		ł			4.6
]	24/6	2-4	45	Geotextile membrane with b	lack pitch material	.	1		
] _			60	1					1
		52				1					
	-	1		 	10	1					
4.0					16	1					1
	<u> </u>	_	24/16	4-6	7	Gray f-c SAND, trace Silt, tr	ace f Gravel.				
		S3			2						İ
		1 3			1	}					ĺ
	—	1			1						l
6.0	 				1 1	-					
		4	24/2	6-8	3	Gray f-c SAND, trace Slit, tr	ace f Gravel.				
	l	S4			2						
]			3						į
8.0		1			5	7					
P.U =	 	 				•					
		-	24/24	8-10	3	Black f-c SAND, little Silt. (0	Concrete fragments	last 2").			ł
		S5			3	4					}
	1				7						l
10.0		1			3						1
-	 				1	C C CANID HAVE CIN O	OH black base	d million			1
l	 	-	24/18	10-12	12	Gray f-m SAND, little Silt (b material)	ottom 3. plack hald	i piten			į
	L	S5	<u> </u>		10	_					
					9	4					
12.0					4						
١.			24/24	12-14	3	Gray f-m SAND and (black	hard pitch material	top 6">			
		1	44/24	12-14	1	changing to brown SILTY C		/	l t	01.740.44	1
ŀ		S7	<u> </u>	 	2	1			1	SILTY CLAY	
į.	L	4			2	4					
14.0	<u> </u>		· · · ·	<u> </u>	3	1			2		<u> </u>
	GRANULA	R SOILS	CO	HESIVE SOILS	REMARKS:						
l		DENSITY	1	WS/FT DENSITY	1. PID not w	rorking, rainy day.					
			<2	VERY SOFT	2. End of bo						
0-4		RY LOOSE	ļ								
4-10		LOOSE	2-4	SOFT	1						
10-30	MED	NUM DENSE	4-8	M. STIFF	1						
30-50		DENSE	8-15	STIFF						•	
>50	VE	RY DENSE	15-30	V. STIFF	1						
			>30	HARD							
NOTES		1) STRATIFIC			MATE BOUND	ARY BETWEEN SOIL TYPES	S, TRANSITIONS I	MAY BE GRAD	OUAL.		
1	•					UNDER CONDITIONS STAT				ER	
_		•								· •	
GZ)	MAY OCCUR	DOF 10 OTHE	R FACTORS THAN THE	OS FRESENI	AT THE TIME MEASUREM	TIALO ANCLE MIND	-	ſ	BORING NO.	GZA-112
	,									DUNING NO.	3LM-112

GZA C	A GEOENVIRONMENTAL OF NEW YORK NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001 GINEERS AND SCIENTISTS					PROJECT 41.0161318.00			REPORT OF BORING NO. GZA-113 SHEET. FILE NO.				
ENGIN	EERS AN	D SCIENTIS	TS	. :					CHKD BY				
BORING	co.	Summit Drilling				BORI	NG LOCATION						
FOREMA		Denis Crayon				GROUND SU	JRFACE ELEV.		DATUM				
GZA ENG	3 . ,	Danielle Saleme					DATE START	10/18/06	. DATE END	10/18/06	-		
SAMDI E	D: INIES	S OTHERWISE	NOTED SAME	PLER CONSISTS OF				GROUN	DWATER READIN	GS			
)				SLEDGEHAMMER		DATE	TIME	WATER	CASING	STABILIZATION	TIME		
CASING:	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300 Ib									
	RFALLING												
CASING	SIZE: CASING		OTHER 3 3/4"	SAMPLE			SAMPLE DESC	CRIPTION	R	STRATUM	FIELD		
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*	Bu	RMISTER CLAS	SSIFICATION	K	DESCRIPTION	TESTING		
			24/16	0-2		Brown f-m SAND, litt	te Silt changing	after 10" to					
		S1				gray-black m-c SAN	D (fill material).			FILL			
l		J.]							
2.0													
-						EOB @ 2".							
1]							
						1							
						†							
4.0						†				}			
Į						†							
l						1				İ			
1						1							
6.0	ļ				<u> </u>	4			l				
	ļ	1				4							
					ļ	4							
									ļ				
8.0		1		<u> </u>					[
						<u> </u>			ļ				
1									1				
]			1				
10.0		1											
						1							
						1							
i	-	1				1			İ		Ì		
l	-	1				1							
12.0	 					†							
1		1				1							
1	<u> </u>	-			 	4							
I	<u> </u>	-				1							
14.0	1	Ļ <u></u>		<u> </u>		<u> </u>			<u> </u>				
ŀ	GRANULA		l .	DHESIVE SOILS	REMARKS:								
	LOWS/FT			WS/FT DENSITY	1. Sample tak	en at 1.5-2'							
0-4		RY LOOSE	<2	VERY SOFT									
4-10		LOOSE	2-4	SOFT									
10-30		IUM DENSE	4-8	M. STIFF									
30-50		DENSE	8-15	STIFF									
>50	VE	RY DENSE	15-30	V. STIFF	1								
-			>30	HARD		/ Demarca:		ANA MAY 5= ==	APALIA	· · · · · · · · · · · · · · · · · · ·			
NOTES	5 :			REPRESENT APPROXIMA									
				S HAVE BEEN MADE AT 1					OUNDWATER				
GZN		MAY OCCUR	DUE TO OTHE	R FACTORS THAN THOS	E PRESENT AT	INE TIME MEASURI	EWENIS WERE	MAUE		BORING NO.	GZA-113		

								9 2		-		
				NEW YORK YORK, NY 10001	PROJECT i. park Edgewater			REPORT OF BORING N SHEI			EET 1 of 1	
7						45 River Road	7		FILEN	IO.	41.0161318.00	
ENGINI	EERS AN	ID SCIENTIS	TS		E	dgewater New Jersey			CHKD	BY	DW	
20000		G			<u> </u>	BODIN	IG LOCATION	<u> </u>	See Evold	orati	on Boring Location Plan	
BORING		Summit Drilling			•	1	RFACE ELEV.		DATI	_	on Boring Lecation 1 lan	
FOREMA		Denis Crayon			•	ł	DATE START		DATE E	•	10/19/06	
GZA ENG	ä.	Danielle Salern			•		DATESTAN	10/19/00		٠.	10/10/00	
-								CDOUN!	DWATER READ		·	
				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	WATER	CASING	,ing	STABILIZATION TIME	
CASING:	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300 Ib						4		
HAMMER	RFALLING	24 IN.								\dashv		
CASING			OTHER 3 3/4"						l			
DEPTH	1	62001110	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"	1	SAMPLE DESC RMISTER CLAS		1	R K	STRATUM DESCRIPTION	FIELD TESTING
-	BLOWS	SPOON NO	PENINEC	DEPTHYTY	DEGMAN							TESTING
		1	24/20	0-2	4	Light-dark brown f-m	SAND, some S	ilit (organic materia	al,			0
1		S1			6	hard pitch material th	roughout).					0
1] "			8							0
		1 1				1			ļ	-		
2.0	 	L			13	1			j	İ		
		1	24/17	2-4	25	Light-dark brown f-m	SAND, some S	lit (organic materia	al)			0
l l		S2			17	changing after 6" to E	Black f-m SAND), little Silt	1			0
] 32			16	(hard pitch material ti					FILL	n
1		1			1	A STATE PROPERTY OF THE PARTY O			2			•
4.0					12	ł			2		' I	
1			24/15	4-6	8	Brown f-m SAND, littl	e Silt (organic ı	material)	ļ			0
	1	٠,		<u></u>	9	changing after 8" to E	Black f-c SAND	, little silt, trace f g	ravel			0
-		S3			8	(geotextile fabric with	nitch material	in bottom 7" of sac	non)			0
		1				Georgeans Japane Mila	picar materia	an bottom v or ape)			
6.0			<u> </u>		7	ł			1			
.		1	24/13	6-8	4	Black f-c SAND, little	silt, trace f gra	vel (brick and woo	d			0
)		1			5	hard pitch material ar	nd solid wood in	n bottom 2" of spec	on).			0
		S4							,.			_
	<u> </u>	4			4	1						Ü
8.0					22							
	İ		24/9	8-10	3	Black m-c SAND, soi	me Silt (hard pi	tch material throug	rhout).			0
		7			6				ŀ			0
ł		- S5				1						
1	-	-			7	-						
10.0	1				13					,		
1 7			24/4	10-12	32	Gray-brown SILTY C	LAY (organic m	naterial).				0
- 1		1			38	1	. +	•				
		S6	-	 	T	†						
	<u></u>	4			10	4					SILTY CLAY	
12.0			<u> </u>		8							
'						EOB @ 12'						
1	-	1			1	1 3						
		4			 	1						
1		_			 	4			1			
14.0				<u></u>		<u> </u>						
	GRANULA	P SOILS	~~	HESIVE SOILS	REMARKS:				-			
l l			<u> </u>	•		nheanied at E E Et						
[!]		DENSITY		WS/FT DENSITY	7	observed at 5-5.5'.						
0-4	VE	RY LOOSE	<2	VERY SOFT	2. Sample take	en at 3.5-4' at 10:20.						
4-10		LOOSE	2-4	SOFT								
10-30	MED	DIUM DENSE	4-8	M. STIFF								
l l		DENSE	8-15	STIFF	1							
30-50			1									
>50	VE	RY DENSE	15-30	V. STIFF								
<u> </u>			>30	HARD	<u> </u>							
NOTES	:	1) STRATIFIC	ATION LINES F	REPRESENT APPROXIMA	TE BOUNDARY	BETWEEN SOIL TYP	ES, TRANSITIO	ONS MAY BE GRA	ADUAL.			
1		2) WATER LE	VEL READINGS	S HAVE BEEN MADE AT 1	IMES AND UND	ER CONDITIONS STA	TED, FLUCTU	ATIONS OF GRO	UNDWATER			
		-		R FACTORS THAN THOS								
GZ)	MIAT OCCUR	DOE TO DIFFE	A LAGIONS INAM INOSI	L. NEOCHI AI	TIME MEAGURE	WERE				BORING NO.	GZA-114
1	,										L SURING NO.	JEN-114

GZA (SEOEN	VIRONME NUE, 18TH F	NTAL OF	NEW YORK YYORK, NY 10001				REPORT OF BORING NO GZA-115 SHEET 1 of 1				
						45 River Road			FILEN		41.0161318.00	
ENGIN	EERS AN	D SCIENTIS	TS		E	dgewater New Jersey			CHKD		DW	
BORING		Summit Drilling				1	ING LOCATION		See Explo		Boring Location Plan	
FOREMA GZA ENG	•	Denis Crayon Danielle Salema			-	GROUNDS	URFACE ELEV. DATE START		- DATE E	_	10/19/06	-
GZA EN	•	Darnone Calorin			•				-			_
SAMPLE	R: UNLES	OTHERWISE	NOTED, SAMP	LER CONSISTS OF				GROUN	DWATER READI	NGS		
A 2" SPL	T SPOON	DRIVEN USING	A 140 lb. HAM	MER FALLING 30 IN		DATE	TIME	WATER	CASING		STABILIZATION TIM	1E
	UNLESS		OTED, CASING	DRIVEN USING A 300 Ib						\perp	-	
CASING		24 114.	OTHER 3 3/4"	HSA						\top		
	CASING			SAMPLE			SAMPLE DESC			3	STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/8*		RMISTER CLAS	•		4	DESCRIPTION	TESTING
			24/22	0-2	14	Light brown f-m SAN			Ì	ı		0
	<u> </u>	S1			25	Black f-m SAND, son	ne Şilt (hard pitci	h material,		- 1		•
					28	wood, and concrete ti	hroughout).			-		•
2.0	1				12	4			İ	1		0
1	<u> </u>		7/6	2-4	26	Black f-m SAND, son	ne Silt (glass)					٥
l		S2			50/1	(hard pitch material, I	less viscous pitcl	h material through	out)			
						HSA to 4'			1			
4.0						(soft pitch material in	drill cuttings)					
			24/17	4-6	26	Hard pitch material in	entire spoon wi	th trace fill materia	al. 2	ı		0
ł		S3			32							0
1		33			24				3			
6.0					18	1					FILL	
-			24/15		17	Gray c SAND.				- [
1	-	ł	24/15	6-8		Gray C SAND.				ŀ		
	<u> </u>	S4	-	····	15	1						0
l		1			7	1						0
B.O -	-	l .			5							
į		 	24/17	8-10	10	Black f-c SAND, little	Silt, trace f Gra	vel (brick, wood, a	nd			, °
1		85		<u> </u>	9	giass, hard pitch mat	erial and geotext	tile fabric with pitcl	h	-		0
İ	<u></u>		<u></u>		6	material throughout).						٥
10.0					4	4						
1]	19/7	10-12	7	Black f-c SAND, little	Silt, trace f Gra	vel (brick, wood, a	ind	-1		0
i		S6			5	glass, hard pitch mat	erial top 2°, soft	pitch material bott	om 3").			0
			<u> </u>		22	_				-		1
12.0]			50/1	<u> </u>				L		_
1 '						EOB @ 12' (refusal).						
ļ		1				1				۱		1
		1				1						
		1		1		1						
14.0	CDAN" *	2 50% 5	~~	DHESIVE SOILS	REMARKS:	•						
١.	GRANULA		1	WS/FT DENSITY	1	n at 3.5-4' at 11:25						
0-4	LOWS/FT	RY LOOSE	√2	VERY SOFT	1	is classified as Black 1-	c SAND. little SI	it, trace f Gravel f	brick, wood, and o	alass)		
4-10		LOOSE	2-4	SOFT	1	observed at 5-5.5'			,,	/		
10-30		IUM DENSE	4-8	M. STIFF								
30-50		DENSE	8-15	STIFF								
		RY DENSE	15-30	V, STIFF	ł							
>50	VE	V. DEMOC	>30	HARD								
NOTES		1) STPATIEIC		REPRESENT APPROXIMA	TE BOUNDARY	BETWEEN SOIL TYPE	ES. TRANSITION	NS MAY BE GRAF	DUAL.			
10,53	•	•		S HAVE BEEN MADE AT 1								
				R FACTORS THAN THOS								
GZN))	,,, 0000 K								Γ	BORING NO.	GZA-115

GZA GEOENVIRONMENTAL OF NEW YORK					PROJECT			274.44				
GZA (SEOEN	VIRONME	NIAL OF	YORK, NY 10001	Ì	PROJECT i. park Edgewater		REPORT OF BORING NO			GZA 116	
440 NIP	II II AVE	NUE, TOTE	LOOK, NEV	FORK, NT ILOUS		45 River Road				NO.		
ENGIN	EERS A	ID SCIENTIS	TS		E	dgewater New Jersey			снк			. 62 62
BORING		Summit Drilling	·		l	BORING	LOCATION		See Ext	olorati	on Boring Location Plan	
FOREMA		John Murtha			•	GROUND SURI				TUM		
GZA ENG		M. Hayes and D	. Salemo		•	1	ATE START		DATE	•		-
		yee and a			•				•			_
SAMPLE	R: UNLES	S OTHERWISE	NOTED, SAMP	LER CONSISTS OF				GROUN	DWATER REA	ADING	ŚS.	
				IMER FALLING 30 IN		DATE	TIME	WATER	CASING	i	STABILIZATION TIN	Æ
											,	
CASING	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300 II	•							
HAMME	R FALLING	24 IN.				ļ			<u> </u>			
CASING		· · · · · · · · · · · · · · · · · · ·	OTHER 3 3/4"			ļ		L	<u></u>			1
DEPTH	CASING	22221112	DENIMER	SAMPLE SERVICED	BLOWS/6"	4	AMPLE DESC	CRIPTION SSIFICATION	ļ	R	STRATUM DESCRIPTION	FIELD
 	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)							DESCRIPTION	TESTING
1			24/20	0-2	5	Brown m-c SAND, little	e f Gravel (co	ncrete, brick)				0
		S1			25							0
1	L]			60	1			ł			0
2.0		1			45]			Ī	ļ		
1 -			24/16	2-4	17	Similar to above			1			
		1	247.0		10	1						
1	 	S2				1			}			"
1	 	4			11	1			1			8
4.0					12	4			1			
1		1	14/9	4-6	7	Organic material, chai	nging after 2"	to	1			0
1	L .	S3			16	Brown m-c SAND, little	e Silt (concret	te)				0
		1 ~			100/2	1			1			
6.0		1				EOB @ 5.5' (refusal o	n cravel)					
- ۳۰	 	<u> </u>					3 ,					
		┨				1						
1	<u> </u>	4				4						İ
1		1		<u> </u>		4			- 1			İ
8.0									1			
				İ]						ł
1]				1						į
1		1				1			ļ			1
1		†			 	1						į
10.0	┼					-						į
	<u> </u>	4			 	-			ļ			
1	<u> </u>	1	<u> </u>		ļ	4						1
	L	_				1						
12.0					<u> </u>				İ			-
'	Γ	T]			ļ			ł
1	—	1				1						1
1	<u> </u>	1		 	†	1						
	<u> </u>	4		-	 	1			ļ			
14.0		1		1							<u> </u>	L
	GRANULA	R SOILS	co	HESIVE SOILS	REMARKS:							
	BLOWS/FT	DENSITY	BLO	WS/FT DENSITY								
0-4	VE	RY LOOSE	<2	VERY SOFT								
4-10		LOOSE	2-4	SOFT	1							
10-30	ME	IUM DENSE	4-8	M. STIFF	1							
30-50		DENSE	8-15	STIFF								
>50	\/=	RY DENSE	15-30	V. STIFF								
-3"	VE		>30	HARD	1							
		A) OTD ATECO		REPRESENT APPROXIMA	TE BOUNDARY	RETWEEN SON TYPE	S TRANSIT	IONS MAY BE OS	RADUA			
NOTES	:											
		•		S HAVE BEEN MADE AT					CONDWATER			
GZN)	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THOS	E PRESENT AT	THE TIME MEASUREM	MENIS WER	E MADE			populo vo	674.440
1	,										BORING NO.	GZA-116

			OF NEW YORK		PROJECT Lipark Edgewater 45 Piver Road	and the second s				GZA-118 1 of 1 41 0161318.00	n
IGINEER	S AND SCI	ENTISTS			Edgewater, New Jersey			4	CHKD BY		
RING CO.		Summit Drilling			BORING LOCATION S	See Exploration L	ocation Plan				
REMAN		Travis		•	GROUND SURFACE ELEV.			DATUM			_
ZA ENGINE	ER	D. Salemo		•	DATE START 1	0/26/06		DATE END	10/26/06		
											-
	Geoprobe'* - 2		ch long, clear ac	etate liner, installe	ed with a hydraulic hammer. SAMPLE DESCRIPTION	STRATE	TAA .	EQUIPM	AENT	FIELD	Т
DEPTH (FT)	SAMPLE	SAMPLE PEN/REC	DEPTH (FT)	В	SAMPLE DESCRIPTION JRMISTER CLASSIFICATION	DESCRIP		INSTAL		TESTING	
		48/20	0.4		D, little Silt, trace f Gravel (brick fragments) k m-c SAND, little Silt (traces of organic list 6").	FILL				0	
				1	}					0	l
•	Į			1						0	l
² <u> </u>	1			1						0	İ
				†							
	1		 							0	ĺ
		<u> </u>	<u> </u>	1			·			0	ı
-	-	 								0	l
	1	42/13	4-7,5		and SILT changing to black SILTY CLAY less viscous pitch material at bottom).					0	ı
	İ		<u> </u>	1				,		0	١
			 	1						26.5	l
·	2		 	1						26.5	ı
			 	1						26.5	ı
			 	-						0	l
				-						0	١
8				4						0	١
	İ	48/29	<u> </u>		D and SILT changing after 38" to pitch eotextile material with pitch material, 1" of					0	
			ļ	less viscous pito	th material, 2" of hard pitch material)					0	
				- Called Spring to 2 Por	MIT EAT BOUGHT.					0	ı
10		<u></u>	ļ	1						0	ı
	1		ļ	4						0	ı
										0	ı
	1									0	ı
12						PEA"	r 				ļ
	1			EOB@12'							l
				1							l
											l
14	4										l
	7			j							ı
											-
				}							1
16				1							l
	1. Water tab	le at 3.5'-4'.									
			0'-2', 3.5'-4', and	5'-7'. Sample for	benzene taken at 7'-7'5'.						
IOTES:	1) STRATIF	ICATION LINES	REPRESENT AF	PROXIMATE BO	UNDARY BETWEEN SOIL TYPES; TRANSIT	IONS MAY BE G	KADUAL.				

BORING NO.GZA-118

ISTS nmit Drilling vis Salerno meter, 48-inch long, clear ac SAMPLE PEN/REC DEPTH (FT) 48/12 0-4 48/19 4-8	Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayey SiLT in the last 6" (less viscous pitch material).	STRATUM DESCRIPTION FILL	CHKD BY	FIELD TESTING 0 0 0 0 0 0 0 0 0 0
vis Salemo meter, 48-inch long, clear ac SAMPLE PEN/REC DEPTH (FT) 48/12 0-4	GROUND SURFACE ELEV. DATE START Letate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION BURMISTER CLASSIFICATION Light brown, f-m SAND, some Silt, trace f Gravel (concrete fragments in top of the spoon). Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayer SILT in the last 6" (less viscous pitch	STRATUM DESCRIPTION FILL	DATUM DATE END 10/26/06 EQUIPMENT	FIELD TESTING 0 0 0 0 0 0 0 0 0 0 0
Salemo meter, 48-inch long, clear ac SAMPLE PEN/REC DEPTH (FT) 48/12 0-4	etate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION BURMISTER CLASSIFICATION Light brown, f-m SAND, some Silt, trace f Gravel (concrete fragments in top of the spoon). Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayey SILT in the last 6" (less viscous pitch	STRATUM DESCRIPTION FILL	DATE END 10/26/06 EQUIPMENT	FIELD TESTING 0 0 0 0 0 0 0 0 0 0 0
neter, 48-inch long, clear ac SAMPLE PEN/REC DEPTH (FT) 48/12 0-4	etate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION BURMISTER CLASSIFICATION Light brown, f-m SAND, some Silt, trace f Gravel (concrete fragments in top of the spoon). Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayey SiLT in the last 6" (less viscous pitch	STRATUM DESCRIPTION FILL	EQUIPMENT	FIELD TESTING 0 0 0 0 0 0 0 0 0 0 0
SAMPLE PEN/REC DEPTH (FT) 48/12 0-4	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION Light brown, f-m SAND, some Silt, trace f Gravel (concrete fragments in top of the spoon). Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayey SiLT in the last 6" (less viscous pitch	DESCRIPTION FILL		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SAMPLE PEN/REC DEPTH (FT) 48/12 0-4	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION Light brown, f-m SAND, some Silt, trace f Gravel (concrete fragments in top of the spoon). Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayey SiLT in the last 6" (less viscous pitch	DESCRIPTION FILL		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PEN/REC DEPTH (FT) 48/12 0-4	BURMISTER CLASSIFICATION Light brown, f-m SAND, some Silt, trace f Gravel (concrete fragments in top of the spoon). Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayey SiLT in the last 6" (less viscous pitch	DESCRIPTION FILL		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	fragments in top of the spoon). Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayey SiLT in the last 6" (less viscous pitch			0 0 0 0 0 0
	fragments in top of the spoon). Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayey SiLT in the last 6" (less viscous pitch			0 0 0 0 0 0
48/19 4-8	Brown, f-c SAND, some Silt (Concrete fragments) changing to Black, Clayey SiLT in the last 6" (less viscous pitch			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
48/19 4-8	to Black, Clayey SILT in the last 6" (less viscous pitch			0 0 0 0
48/19 4-8	to Black, Clayey SILT in the last 6" (less viscous pitch			0 0 0 0
48/19 4-8	to Black, Clayey SILT in the last 6" (less viscous pitch			0 0
48/19 4-8	to Black, Clayey SILT in the last 6" (less viscous pitch			0 0 0
48/19 4-8	to Black, Clayey SILT in the last 6" (less viscous pitch			0 0
48/19 4-8	to Black, Clayey SILT in the last 6" (less viscous pitch			0
48/19 4-8	to Black, Clayey SILT in the last 6" (less viscous pitch			•
				1
				1
				26.5
		l .		1
	-	I	1	26.5
				26.5
	1			0
	-			0
	Black fill material (sheen, odor, less viscous pitch material).			0
48/19	Para in the same (allows), see the see plant in the same			0
	4		İ	0
				0
	_			0
				0
			l	0
	1			0
	1			0
49/37	Brown, f-m SAND, some fine Silt, trace fine Gravel			٥
40/3/	brown PEAT in last 4".	1		0
	1			
	†			
	1			l °
	†			۰
	4			0
	4	DEAT	1	0
		[1	0
	48/37	48/37 changing after 10" to less viscous pitch material changing to brown PEAT in last 4".	48/37 changing after 10" to less viscous pitch material changing to brown PEAT in last 4".	danging after 10" to less viscous pitch material changing to brown PEAT in last 4".

GZA C	SZA GEOENVIRONMENTAL OF NEW YORK 40 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001					PROJECT		REPORT OF BORING						
440 NIN	TH AVE	NUE, 18TH F	LOOR, NEW	YORK, NY 10001	 	i, park Edgewate 45 River Road			SHI FILE	EET NO.	1 of 1 41.0161318.00			
ENGINE	ERS AN	ID SCIENTIS	TS			Edgewater New Jer	sey		СНКЕ	It co				
BORING	CO.	Summit Drilling		DRILLING RIG			BORING LOCATION		See Exp	lorati	on Boring Location Plan			
FOREMA	N .	John Murtha		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV.		-	TUM_		-		
GZA ENG	٠.	M. Hayes					DATE START	10/17/06	- DATE	END.	10/17/06	-		
SAMPLE	R: UNLES	S OTHERWISE	NOTED, SAMPI	ER CONSISTS OF			· · · · · · · · · · · · · · · · · · ·	GROUNDY	WATER READIN	VGS	· · · · · · · · · · · · · · · · · · ·			
				MER FALLING 30 IN		DATE	TIME	WATER	CASING		STABILIZATION TIM	E		
		OT ITOMOF A	DTED CASING	DDAÆN HEING A 200 II				Ι		1				
l .	UNLESS		DIED, CASING	DRIVEN USING A 300 II	,									
CASING	SIZE:			<u> </u>			<u> </u>	L	<u> </u>					
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"	.	SAMPLE DESCRI BURMISTER CLASSI		ŀ	R	STRATUM DESCRIPTION	FIELD TESTING		
						1' asphalt								
		\$1	24/18	1-3	30	(Hard pitch material	in top 6" of spoon)							
2.0					12	(Wood in next 6" of a	poon)					0		
					10	(Hard pitch material	in next 1" of spoon)					0		
		S2			15	(Wood in bottom 2"	of spoon)							
			24/10	3-5	7	Brown f-c SAND, so	me silt, little f Gravel (l	ess viscous pitch)			<u></u>	90.2		
4.0					17	changing to Brown f-m SAND						12.2		
		ļ			30	(Hard pitch material	fard pitch material in bottom 1")							
1		\$3			14									
l			24/20	5-7	- 5	Black f-c SAND (obv	iqus sheen)					0		
6.0 _	<u> </u>				25	changing after 10" to	brick				:	٥		
1					15	changing after 6" to	Black f-c SAND, little S	Silt, trace f Gravel				0		
		S4	<u></u>		10	1						0		
]	24/24	7-9	10	Brown-Black f-c SAND, little Silt (wood at 8.5")						0		
8.0		ļ. ———			12	(Some staining in we	et soil top 1")					0		
1	 	1			7	1						0		
j		S5	 		55	1				i		٥		
	-	1	24/10	9-11	2	Black f-c SAND, little	s Silt, little f Gravel					l °		
10.0	 	 				1			ł					
Į.	<u> </u>	1			1	1						1		
1		S6		11-13	2	Black f-c SAND, little	n Cilt (somewat)					1		
		1		11-13	8	(Hard PA material th			ļ					
12.0	-				8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ł			1		
1	 	1			12	1								
		S7		13-15	5	Black f-c SAND, little	e Silt		-					
14.0		1			1	3	, less viscous pitch ma	terial throughout)	1					
		1			1	changing to SILTY		- "]		
1		1			2]3	3	SILTY CLAY	<u> </u>		
	GRANULA	R SOILS	co	HESIVE SOILS	REMARKS:				-					
	LOWS/FT	DENSITY	BLOWS	FT CONSISTENCY	1. A 3" spoon w	as used for all sample	es							
0-4	VE	RY LOOSE	<2	VERY SOFT	2. PID not work	ing due to rain								
4-10		LOOSE	2-4	SOFT	3. EOB @ 15'.									
10-30		NUM DENSE	4-8	MSTIFF										
30-50 DENSE 8-15 STIFF														
>50 VERY DENSE 15-30 V. STIFF														
		4) STRATIFIC	>30	HARD EPRESENT APPROXIM	ATE BOUNDARY	BETWEEN SOIL TYPE	PES. TRANSITIONS IV	IAY BE GRADUAL	<u>. </u>					
NOTES	•	-		HAVE BEEN MADE AT										
				R FACTORS THAN THO										
CZ)										BORING NO.	GZA-120		

	GZA GEGENVIRONMENTAL OF NEW YORK 140 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001					FROJECT	•	REPOR	T OF BORING NO. SHEET		
1.01101			20011, 11211			45 River Rd.			FILE NO.	41.0161318.0	0
ENGINE	ERS AN	D SCIENTIS	rs			Edgewater NJ			CHKD BY		
BORING	co.	Summit		DRILLING RIG	CME		BORING LOCATION	See Exploration I	Location Plan		
FOREMA	N	John Murtha		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV.		. DATUM		_
GZA ENG	3. ·	M. Hayes and D	, Salemo		-		DATE START	10/11/06	DATE END	10/11/06	_
			NOTE 04145	TO CONCIETE OF			,	GROUNDW	VATER READINGS		
				PLER CONSISTS OF IMER FALLING 30 IN		DATÉ	TIME	WATER	CASING	STABILIZATION TI	ME
CASING:	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300	lb						
	RFALLING										
CASING								<u> </u>	l		, ,
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"		SAMPLE DESCRI BURMISTER CLASSI		R K	STRATUM DESCRIPTION	FIELD TESTING
	DEGING	5, 5,5,1,1,1		0-2	7		ome Silt (concrete in b		,		
			24/14	- 6-2		JOIOWII I-III GANE, au	mio din (concide in b	ottorn z or apoon,	' l		1
		S1 :			7	1			ł		
					6	†			l l		
2.0					В	-			İ		
l			0/0	2-4		concrete at 2"			l		
l		S2				HSA to 3' FILL					
{		ļ	24/0	3-5	50	No recovery			ŀ		
4.0					40				l	i	
					28						
l]			20						
•		S3	24/15	5-7	7	Gray f-m SAND, little	e Silt				
		1	24,13		2				,		
6.0						1			ſ		
		1			.3	1			ŀ		
1		S4			2	-			1		
1		ł	24/14	7-9	2	Brown SILTY CLAY				}	
8.0					1	changing after 6" to	Gray-black m-c SAND), little Silt (slight o	odor)		İ
į .		1			2	(Brown wood chips is	n middle 2" of spoon)				
1	<u></u>	S5			1	_					
]	24/5	9-11	2	Gray m-c SAND, littl	le Silt (slight odor)				
10.0					1	(Brown wood chips i	n top 1" of spoon)		l		1
•	T				1					1	
1]			1	1					
		S.6	24/20	11-13	1	Brown SILTY CLAY	(organic material)			SILTY CLAY	
12.0		1			1]			-		
[-	<u> </u>	 	<u> </u>			1					
	<u> </u>	†		 	 	1					
1		S7		 	1 1	L					1
		1		 	<u> </u>	EOB @ 13'			•		
14.0	<u> </u>	J	 	J		<u> </u>				<u> </u>	
1	GRANULA	R SOILS	1	HESIVE SOILS	REMARKS:						
	LOWS/FT			FT CONSISTENCY	1. Water table						
0-4	VE	RY LOOSE	<2	VERY SOFT	2. Sample for 1	TPH taken at 15:05 at	a depth of 5-5.5'.				
4-10 LOOSE 2-4 SOFT											
10-30 MEDIUM DENSE 4-8 M. STIFF											
30-50 DENSE 8-15 STIFF											
>50 VERY DENSE 15-30 V. STIFF											
<u></u>			>30	HARD	1						
NOTES	:	•		REPRESENT APPROXIM							
1				S HAVE BEEN MADE AT					OWATER		
GZN	1	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	SE PRESENT A	T THE TIME MEASUF	REMENTS WERE MA	DE		24.	
1 -4	y									BORING NO.	GZA-121

GZA (440 NIN	GEOEN ITH AVE	VIRONME IUE, 18TH F	NTAL OF LOOR, NEW	NEW YORK YORK, NY 10001		PROJECT I. park Edgewate		REPOR	T OF BORING NO. SHEET		of 1
ENGINI	EERS AN	D SCIENTIS	TS		 	45 River Road Edgewater New Jer	sey		FILE NO. CHKO BY		8:00
BORING	CO.	Summit Drilling	· · · · · · · · · · · · · · · · · · ·	DRILLING RIG	<u></u>	ĺ	BORING LOCATION	<u> </u>	See Expl	oration Location Plan	
FOREMA		Denis Crayon		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV.		DATUM		
GZA ENG	3.	D. Salemo			,		DATE START	10/16/06	DATE END	10/16/06	
ì				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	GROUNDY	VATER READINGS CASING	STABILIZATION	ITIME
CASING	IINE ESS	THERWISE N	OTED CASING	G DRIVEN USING A 300	(b			I	<u> </u>		
)	RFALLING				_						
CASING	SIZE:							<u>L</u>	<u> </u>		
DEPTH	CASING		artimes.	SAMPLE	BLOWS/6*	}	SAMPLE DESCRI BURMISTER CLASSI		R	STRATUM DESCRIPTION	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	1			II IONI IONI	· ^	, DESCRIPTION	TESTING
			12/0	0-2	15	No recovery - refusa	on cobble				
	<u> </u>	S 1			20	HSA to 2'					
1	<u> </u>								i		
2.0	<u> </u>										1
l			24/1	2-4	47	Brown-black SILTY	CLAY, trace f Gravel				0
		<u>~</u>			27					FILL	
		S2			13	1			ŀ		
4.0					7	1					
-	 					Dis-1: 6 DAND	CIN Among & Commel	/ L.J			
			24/8	4-6	13	Black 1-m SAND, sol	me Silt, trace f Gravel	(Drick)			°
1	<u> </u>	S3			14	1			2		0
	<u> </u>		ļ		8	1			ŀ	ļ	
6.0					9	.				ļ	
1						EOB @ 6".					
		S4				<u> </u>					
	["				}			1	ļ	- 1
8.0		ĺ				1			1		
-						1				1	1
ļ						1			}		
l		S5			†	1					
l	 	1				1					
10.0	ļ.,		 	<u> </u>		-			1		
1					 	-			}		
		S6	<u> </u>	<u></u>		4]		
1	L]					
12.0]					
Ι΄											
1		1]]		
		S7				1				1	
[1				1			ļ		
14.0		<u> </u>		L		L					
1	GRANULA		i	HESIVE SOILS	REMARKS:		for this base				
· · · · · · · · ·	LOWS/FT			FT CONSISTENCY	1	on sampler was used	tor this boring.				
04		RY LOOSE	<2	VERY SOFT	2. Water table	observed at 4,5'.					
4-10		LOOSE	2-4	SOFT							
10-30		IUM DENSE	4-8	M. STIFF							
30-50		DENSE	8-15	STIFF							
>50	VE	RY DENSE	15-30	V. STIFF							
<u> </u>			>30	HARD	l				······································		
NOTES	i:	1) STRATIFIC	ATION LINES F	REPRESENT APPROXIN	IATE BOUNDAR	Y BETWEEN SOIL TO	PES, TRANSITIONS	MAY BE GRADU	AL.		
1		2) WATER LE	VEL READING	S HAVE BEEN MADE AT	TIMES AND UN	DER CONDITIONS S	TATED, FLUCTUATIO	ONS OF GROUND	WATER		
	•	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	SE PRESENTA	T THE TIME MEASUR	REMENTS WERE MA	DE			
CZ\	y									BORING NO.	GZA-124

074	· EOFN	WOOME	utai oc	MEM VADV							27.400	1.3
				NEW YORK YORK, NY 10001		PROJECT i. park Edgewate		KEPO	RT OF BORIN	G NO. HEET	GZA-124B	*************************************
770 140	LITT-PLY C	100, 10,111	LOO1, 11411	- Charles Teach	***************************************	45 River Road			2	E NO.		
ENGIN	ERS AN	D SCIENTIS	TS			Edgewater New Jer	sey		CHI	KD BY		
BORING	co.	Summit Drilling		DRILLING RIG			BORING LOCATION	· · · · · · · · · · · · · · · · · · ·	Ser	e Explo	oration Location Plan	
FOREMA		John Murtha		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV.		D.	ATUM		
GZA ENG	i. [M. Hayes					DATE START	10/17/08	DATI	E END	10/17/08	
								 				
SAMPLE	R: UNLESS	OTHERWISE 1	NOTED, SAMPL	ER CONSISTS OF					WATER READ	NGS		•
A 3" SPL	T SPOON I	DRIVEN USING	A 140 lb. HAM	MER FALLING 30 IN		DATE	TIME	WATER	CASING	3	STABILIZATION TIME	Ē
								Γ	r		r	
			OTED, CASING	DRIVEN USING A 300 IL	•							
CASING	FALLING:	24 IN.										
	CASING			SAMPLE			SAMPLE DESCR	IPTION		R	STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*		BURMISTER CLASS	FICATION		К	DESCRIPTION	TESTING
			24/0	0-2	27	10" asphalt						
					20	No recovery						
1		S1			15	1						
						1				ŀ		
2.0					10	1				l		
			24/4	2-4	5	Black-brown f-c SAN	ID, little Silt, trace f Gra	zvel		ŀ		
•		\$2			4	1				1		
					5	1						
4.0		i			20	_					FILL	
			24/0	4-8	11	No recovery (wet)						
i					4	1				İ		
		S3				1						
1					10	†				i		
6.0					22	1						
			24/8	6-8	8	Black f-c SAND, little	Silt				i	
l		S4			8	(brick, hard pitch ma	terial at top of spoon a	nd less viscous pit	ich			
l		<u> </u>			12	material throughout	coating soil)					
8.0					8							
-			24/24	8-10	14	Black f-c SAND, little	Sit					
1		1 1	5727		8	1	oltch material, then 6" i					İ
1		S5			1	T(mb) less viscons)	ACTI ITALENAI, TIENO	and pitch, and o	no piteri)			
1					7	-						
10.0	<u> </u>	1			6	-						
Į.		.	24/24	10-12	2	Black f-c SAND, little	Silt, changing after 18	3" to brown SILTY	CLAY			
1		S6			1	(obvious staining and	i sheen)		•	l		
i	<u> </u>				1	(Less viscous pitch)						
12.0]			1						SILTY CLAY	
-						EOB @12"						
1		1				1 3						
		S7		<u> </u>		†						
1	ļ	1			 	1						
14.0	<u> </u>	<u> </u>		l	ļ	1				L		
1	GRANULA	R SOILS .	co	HESIVE SOILS	REMARKS:							
E	LOWS/FT	DENSITY	BLOWS	FT CONSISTENCY	1. No recovery	in GZA-124A so tried a	another location approx	c.5'SW				
0-4	VE	RYLOOSE	⋖	VERY SOFT	2. A 3" spoon w	as used until the third :	spoon (4-6'), when it w	as switched to a 2'	spoon to try fo	r bette	r recovery	
4-10		LOOSE	2-4	SOFT								
10-30	MED	IUM DENSE	4-8	M. STIFF								
30-50	1	DENSE	8-15	STIFF								
>50		RY DENSE	15-30	V. STIFF	1							
1			>30	HARD								
NOTES		1) STRATIFICA		EPRESENT APPROXIMA	TE BOUNDARY	BETWEEN SOIL TYP	S, TRANSITIONS MA	Y BE GRADUAL	······································			
,	•	•		HAVE BEEN MADE AT 1					ATER			
_				R FACTORS THAN THOS								
CZ)	WAT OCCOR I	JUE TO CHIEF	CIACIONS INAN INOS	L FRENCHI AI	I IME MEASURE	MENTO WERE WADE				BORING NO.	GZA-124B
											L SOMING NO.	

GZA (SZA GEOENVIRONMENTAL OF NEW YÖRK 40 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001					PROJECT		REPOR	RT OF BORING N			
140 NIN	TH AVE	NUE, 181H F	LOOR, NEW	A KOHKY VIT JOHOU		i. park Edgewater 45 River Road		1	FILEN		1 of 1 41,0181318.00	
ENGINI	EERS AN	ND SCIENTIS	ភទ			Edgewater New Jers	sey	1	СНКО			
BORING	co.	Summit Drilling	J	DRILLING RIG	<u> </u>	<u> </u>	BORING LOCATION	·	See E	.coto:	ration Location Plan	
FOREMA	√N.	John Murtha		TYPE OF DRILLING	HSA] GROUN	ND SURFACE ELEV.		DATI	_		
GZA ENG	š.	M. Hayes			-		DATE START	10/19/06	_ DATE EN	__	1,0/19/06	-
CAMPLE	D. UNI ES	e otherwise	NOTED SAM	DI ER CONSISTS OF		 		GROUND	WATER READING			
				PLER CONSISTS OF MMER FALLING 30 IN		DATE	TIME	WATER	CASING	مات	STABILIZATION TIM	Æ
			***************************************			L						
			IOTED, CASING	G DRIVEN USING A 300	lb	ļ	 	 	 	\dashv		
	R FALLING	24 IN.				 		 	 	+		
DEPTH	CASING			SAMPLE		<u> </u>	SAMPLE DESCRI	IPTION	- 17	R	STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	F	BURMISTER CLASSI	IFICATION		ĸ	DESCRIPTION	TESTING
, ,	<u></u> '	1 '	24/24	0-2	10	Brown f-c SAND, som	ne Silt (brick, concret	19)		-	1	
, ,	<u> </u>	S1	<u> </u>	<u> </u>	12	(6" topsoil)					!	
, ,		1 '			15	4					1	
2.0	 '	 '	 '		25	4			1		!	
, ,	<u></u> '	1 '	24/12	2-4	7	Brown SILTY CLAY d	.hanging after 2" to			ı	!	
i 1	'	\$2	Ĺ	<u> </u>	7	Soft pitch material with	th Geotextile fabric		1	-	ĺ	ļ
ı '	<u></u> '	1 '	L	<u> </u>	12	4			1		ı	
4.0	<u> </u>	 '	<u> </u>	<u> </u>	8					-	ĺ	
i '		1 '	24/24	4-6	15	Black hard pitch mate	arial, some soft pitch,	, little concrete,	1		ĺ	
i '		S3		<u> </u>	18	little Black f-c SAND					I	
i '		1 '		<u> </u>	14	_				- 1	I	1
6.0	<u> </u>		1	<u> </u>	10	_			- 1	1	;	
i '		<u>'</u>	24/20	6-8	8	Black soft pitch mater	rial changing after 3"	to Black f-c SANT	D.	1	!	
i '		S4			10	little Silt, with crushed	i hard pitch				:	
l '					14							1
8.0					8]			- 1			1
l			24/22	8-10	8	Black f-c SAND, little	, Silt					1
l		\$5			7	(little soft pitch top 4"))		- 1			
] -			7]			-			1
10.0		1			4]				1		
i -			24/16	10-12	14	Brown SILTY CLAY of	changing after 6" to s	oft and hard pitch				
1		56			18	changing after 4" to w			1			
1		1 ~			7	1					ı	
12.0		1			4]			1			
-			24/6	12-14	3	Black f-c SANO, trace	e Silt (soft pitch)		1			
ĺ					1	1			1			
1		1 "			1	1			1			
14.0		1			1	1						
			24/24	14-16	5	Black f-c SAND, little	Slit changing after 1	16" to	1	-	·	
1		1			3	Brown SILTY CLAY		•	- 1		SILTY CLAY	1
İ		S8			1					-		
	 	†			1	1]3	1	·	
	GRANULA	AR SOILS	60	OHESIVE SOILS	REMARKS:	<u> </u>						
1	BLOWS/FT		BLOWS	S/FT CONSISTENCY	1. A 3" spoon v	was used for this boring.	<i>j.</i>					
0-4	VE	ERY LOOSE	<2	VERY SOFT	2. Taffy PA me	aterial in drill cuttings from	ım 10-15'					
4-10		LOOSE	2-4	SOFT	3. EOB @ 16"							
10-30		DIUM DENSE	4-8	M. STIFF								
30-50	1											
>50	VE	RY DENSE	15-30	V. STIFF								
<u> </u>			30 ×30	HARD		W DETWEEN SOIL TV	OFF TRANSITIONS	***Y SE CRADU				
NOTES	:	-		REPRESENT APPROXIM SS HAVE BEEN MADE AT								
		-		ER FACTORS THAN THO					MULL			
GZ	.)	RIPLI GGGG	DUL 10 01	Arresone	, ou	1 11	AND 110 112	~		Γ	BORING NO.	GZA-125

GZA-125

				NEW YORK		PROJECT		REPOR	T OF BORING NO. SHEET		26A of 1
440 NIN	ITH AVE	IUE, 18TH F	LOOK, NEW	YORK, NY 10001		park Edgewater 45 River Road			FILE NO.	41.0161318	
ENGINI	ERS AN	D SCIENTIST	rs .			Edgewater New Jers	seý	·	CHKD BY		
BORING	CO	Summit Drilling		DRILLING RIG		r	BORING LOCATION		See Explo	oration Location Plan	
FOREMA	•	Denis Crayon			HSA	1	ND SURFACE ELEV.		DATUM		
GZA ENG	•	D. Salerno					DATE START	10/18/06	DATE END	10/18/06	
					·						
				LER CONSISTS OF MER FALLING 30 IN		DATE	TIME	GROUNDW WATER	ATER READINGS CASING	STABILIZATION:	ТІМЕ
								,			
CASING	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300	lb			<u> </u>			
	R FALLING	24 IN.				ļ				·	-
CASING				SAMPLE			SAMPLE DESCRI	PTION	R	STRATUM	
DEPIH	CASING BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*		BURMISTER CLASSI		ĸ	DESCRIPTION	FIELD
			24/13	0-2	12	Red-brown f-m SANI	D, little Silt, little f Gra	vel			0
	-		24/13		14	1	-,, · -,-	• • •			
		S1				(brick in top 3")			1		i
					10	ł				FILL	0
2.0					7	ł		•			
			24/0	2-4	10	Spoon lost in hole					
}		S2			12	Move boring location	2' West				
		82			20]					
l.,	· · · · · ·			·	24	1					
4.0											
l						EOB @ 4'.					
		S3				Į					
]					
6.0		'									
-						i					
ł	}				1	1			- 1		
1	<u> </u>	S4				1					<u> </u>
		ļ				ļ			1		
8.0	<u> </u>					1					
									l		
		1			İ				ı		
	—	S 5				1					
		ł		<u> </u>		1			1		
10.0						4			i		
1	·L]				1				•	
i		S6	· _						ŀ		
		1									
<u></u>	-	1		 		1					
12.0	+		 	 	 	1					
I		4		 	 	1					
1	L	S7		ļ	ļ	4					
1		1]					
14.0	1			<u></u>							
	GRANULA	R SOILS	CO	HESIVE SOILS	REMARKS:						
1.	LOWS/FT		ŀ	FT CONSISTENCY	1	es used for this boring	3.				
			<2	VERY SOFT	1	n moved 2' West of o	=				
0-4		RY LOOSE	li .		- come reality						
4-10		LOOSE	2-4	SOFT							
10-30	MED	IUM DENSE	4-8	M. STIFF							
30-5D		DENSE	8-15	STIFF							
>50	VE	RY DENSE	15-30	V. STIFF							
L			>30	HARD							
NOTES	:	1) STRATIFIC	ATION LINES F	REPRESENT APPROXIM	ATE BOUNDAR	Y BETWEEN SOIL TO	PES, TRANSITIONS	MAY BE GRADU	AL.		
1				S HAVE BEEN MADE AT							
				R FACTORS THAN THO							
CZ)	WIAT OCCUR	DOE TO GIVE							BORING NO.	GZA-126A

GZA (440 NIN	EOEN TH AVE	VIRONME NUE, 18TH F	NTAL OF LOOR, NEW	NEW YORK YORK, NY 10001		PROJECT	× × × × × × × × × × × × × × × × × × ×	REPOR		HEET	1 of 1	
ENGINI	ERS AN	D SCIENTIS	rs.			45 River Road Edgewater New Jer	sey			E NO. KD BY		
BORING		Summit Drilling		DRILLING RIG	I	T	BORING LOCATION	l	4 1 2 24		oration Location Plan	
FOREMA		John Murtha			HSA	1	ND SURFACE ELEV.			ATUM		
GZA ENG	•	M. Hayes					DATE START		•	E END		-
SAMPI F	2: UNLES	S OTHERWISE	NOTED, SAMPL	ER CONSISTS OF				GROUNDY	VATER REAL	DINGS	· ·	
				MER FALLING 30 IN		DATE	TIME	WATER	CASIN	G	STABILIZATION TIN	ME.
	UNLESS		OTED, CASING	DRIVEN USING A 300	lb							
CASING												
DEPTH	CASING			SAMPLE		1	SAMPLE DESCRI			R	STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"		BURMISTER CLASSI			К	DESCRIPTION	TESTING
			24/24	0-2	10	Brown f-c SAND, sor	ne Siit (brick, concrete	9)				ŀ
		S1			12	(6" topsoii)						l
					15						İ	
2.0					25							
"			24/12	2-4	7	Brown SILTY CLAY	changing after 2" to					
		52	l		7	Taffy PA material wit	h Geotextile fabric					1
] - [12	_				1		
4.0					a]						
-			24/24	4-6	15	Black hard PA mater	ial, some taffy PA, littl	e concrete,				
1					18	little Black f-c SAND						
1		S3			14							1
6.0		1			10	1						1
- "ا			24/20	6-8	8	Stack toffic DA mater	ial changing after 3" to	Black for SAND				
		1	24/20	0-0	10	1		DIECK PC SAND,		ŀ		
	-	S4			1	little Silt, with crushe	o naro PA					
	<u> </u>	1			14	1						
8.0					8	-{						
		-	24/22	8-10	8	Black f-c SAND, little	Silit					
		S5			7	(little taffy PA top 4")				1		
		4			7	4				1	ļ	
10.0					4	4				1		
1		_	24/16	10-12	14	Brown SILTY CLAY	changing after 6° to ta	ffy and hard PA				
	L	S6			18	changing after 4" to	wood					
1					7	_						
12.0]			4							1
•			24/6	12-14	3	Black f-c SAND, trac	e Silt (taffy PA)			İ		1
l		1					•					
ł		S7			1	7				1		
14.0		1			1	1				1		1
17.0	 		2424	14-16	5	Riack to SAND IM.	Silt changing after 16	3" to				
		1	24/24	14-10		7	, wit midnightly still it	- 10			SILTY CLAY	1
1		S8	<u> </u>		3	Brown SILTY CLAY					SILIT CLAT	1
	-	┨	-		1 .	1						
1	<u></u>		 	L	1.	i				13	l	L
	GRANULA		1	ESIVE SOILS	REMARKS:	was used for this beginn						
	LOWS/FT	DENSITY RY LOOSE	BLOWS//	VERY SOFT	7	vas used for this boring terial in drill cuttings fro						
0-4 4-10		LOOSE	2-4	SOFT	3. EOB @ 16'							
10-30		NUM DENSE	4-8	M. STIFF								
30-50		DENSE	8-15	STIFF								
>50		RY DENSE	15-30	V. STIFF								
l "	-		>30	HARD	<u> </u>							
NOTES	:	1) STRATIFIC		EPRESENT APPROXIM	ATE BOUNDAR	Y BETWEEN SOIL TY	PES, TRANSITIONS I	MAY BE GRADUA	L.			
	-	-		HAVE BEEN MADE AT								
		•										
MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE BORING NO. GZA-12											GZA-125	

GZA-125

GZA (SEOEN TH AVE	VIRONME NUE, 18TH FL	NTAL OF .OOR, NEW	NEW YORK YORK, NY 10001		PROJECT i, park Edgewater		REPOR		HEET	1 df 1	
l	•			• • • • • • • • • • • • • • • • • • • •		45 River Road					41,0161318.00	
ENGINE	ERS AN	D SCIENTIST	S			Edgewater New Jen	sey		СН	D BY		
BORING	co.	Summit Drilling		DRILLING RIG		ŧ	BORING LOCATION					
FOREMA		Denis Crayon		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV.			ATUM		
GZA ENG	3 .	D. Salerno			•		DATE START	10/18/06	DATE	END	10/18/06	
<u> </u>						.,		00011101	ATED OF AD	i i i	······································	,
E .				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	WATER	ATÉR READ CASIN		STABILIZATION TIM	E
CASING	IIMESS	OTHERWISE N	OTED CASING	DRIVEN USING A 300	n-			l				
l .	CINLESS R FALLING		JIED, GAGING	S DRIVEN COING A SOL								
CASING		_,										
	CASING			SAMPLE			SAMPLE DESCRI			R	STRATUM	FIELD
<u> </u>	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*]	BURMISTER CLASSI	FICATION		К	DESCRIPTION	TESTING
1						HSA to 2'.						
												i
2.0]						
			22.00	3.4	+2	Brown for CAND	me Silt changing -9-	ur 1" to				
1			22/8	2-4	12	1	me Silt, changing afte				1	ľ
	 	S1			20	Black f-m SAND and					FILL	P
	 			ļ	32	(brick and wood in m	iddle 2")					
4.0					50/4	ļ ·						
l		! [24/14	4-6	12	Brown f-m SAND, litt	tle Silt (brick) changin	g after 4" to				0
1	İ	S2			5	Black f-m SAND, sor	me Silt (wood and brid	ik)				0
					12]				2		
6.0		1			15	1 .		[
-	 					1						
		1	24/10	6-8	12	Ī	le silt (paper, brick) ch	anging after				1
1	<u> </u>	S3		ļ	15	4" to hard PA materi	al (sheen and odor)					
	<u> </u>				17	4					[
8.0					8	<u> </u>					İ	
İ	L	_	24/24	8-10	7	Black f-m SAND, and	d SILT, some c Sand	changing after				İ
ļ					4	12" to Black SILTY C	CLAY					
1		S4			6	(hard PA and Geoter	ktile fabric with PA in I	middle of spoon.				
		1		 	6	1	ting soil, sheen and oc				SILTY CLAY	i
10.0	\vdash	1			<u> </u>		ang son, shoon and se				0.2.1.02.11	
	<u> </u>	-			 	EOB @ 10'.						
1		S5			ļ	1						
1		4				4						
12.0					ļ	1						
												İ
1						i						
ĺ		S6										
1	—	1				1						1
14.0			<u> </u>	LEONIE CON 6	DEMARKS.	1					·	
ŀ	GRANULA			HESIVE SOILS	REMARKS:							
	LOWS/FT			FT CONSISTENCY	1	ras used for this boring	j .					
0-4		RY LOOSE	<2	VERY SOFT	2. Water table	observed at 5'.						
4-10		LOOSE	2-4	SOFT	1							
10-30	MED	IUM DENSE	4-8	M. STIFF								
30-50		DENSE	8-15	STIFF								
>50	VĖ	RY DENSE	15-30	V. STIFF								
			>30	HARD	<u> </u>							
NOTES	:	1) STRATIFICA	ATION LINES F	REPRESENT APPROXIM	MATE BOUNDAR	Y BETWEEN SOIL TY	PES, TRANSITIONS	MAY BE GRADU	AL.			
1		2) WATER LEY	/EL READINGS	S HAVE BEEN MADE AT	TIMES AND UN	DER CONDITIONS S	TATED, FLUCTUATIO	ONS OF GROUND	WATER			
1		MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	SE PRESENT A	T THE TIME MEASUR	REMENTS WERE MA	DE				

GZA-126B

GZN

				NEW YORK YORK, NY 10001		PROJECT I. park Edgewate	r ·	REPORT	OF BORING NO.	1	of 1
ENGIN	ERS AN	D SCIENTIST	rs			45 River Road Edgewater New Jer	36ý		FILE NO. CHKD BY		8.00
BORING	CO	Summit Drilling		DRILLING RIG	CME	I The state of the	BORING LOCATION	L	See Expl	loration Location Plan	
FOREMA		John Murtha		TYPE OF DRILLING	HSA	1	ND SURFACE ELEV.		DATUM		
GZA ENG	•	M, Hayes			_	1	DATE START	10/19/06	DATE END	10/19/06	
	<u> </u>						,				
				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	GROUNDW WATER	ATER READINGS CASING	STABILIZATION	TIMÉ
CASING:	UNLESS	OTHERWISE N	OTED, CASING	S DRIVEN USING A 300	Ib		1	ı i	, a . •		
	FALLING										
CASING							L	<u> </u>		ļ	
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"		SAMPLE DESCRI BURMISTER CLASSI		R	STRATUM DESCRIPTION	FIELD TESTING
	BLOWS	SPOONING					2014110121402400	10111011		DECOIGN TION	1231143
1			24/20	0-2	35	6" asphalt					
		S1			15	6" brick					ŀ
					25	6" crushed hard pitcl					
2.0				<u> </u>	30	6" soft and less viso	ous pitch with concrete	•			İ
			24/20	2-4	6	Brown SILTY CLAY	changing after 5" to			1	
		S2			12	Black f-c SAND, little	e Silt				
[64	(little less viscous pl	tch, little concrete)				
4.0					15	1				FILL	
		ļ	24/20	4-6	10	Black f-m SAND, so	me Silt (less viscous p	itch) changing			1
İ		S3			8	after 6" to Black f-c	SAND, little Silt (some	concrete)			
] " !			9					1	1
6.0					6	1					
- "ا			2482	6-8	6	Black & SAND BHI	a Cilt little area m Can	ul.			
l	 	1	24/12	- 80	1	Black I-C SAND, IICI	e Silt, little gray m San	IU.			
ł	 	S4			3	†				ı II	
Į.	-	1			2	1					
8.0					1	1					ĺ
1			24/16	8-10	4	Black f-c SAND, little	e Silt (slight sheen)				
i		S5			12	4					
		[18	1					ł
10.0					44]					
			24/0	10-12	1	No recovery			1.	SILTY CLAY	
1					2						
		S6			2	1					
12.0		1			2]					}
-]	EOB @ 12'.					
l		1			<u> </u>	1]		[
1	-	S7	 			1					
	-	1		 	 	1			İ		}
14.0	L	<u> </u>	-			<u> </u>			L	L	L
1	GRANULA		i	HESIVE SOILS	REMARKS:						
	LOWS/FT			FT CONSISTENCY	17. Presumed to	encounter the organi	c layer at 10' based on	DIOW COUNTS.			
0-4		RY LOOSE	<2	VERY SOFT							
4-10		LOOSE	2-4	SOFT							
10-30		IUM DENSE	4-8	M. STIFF	-						
30-50	1	DENSE	8-15	STIFF	1						
>50	VE	RY DENSE	15-30	V. STIFF							
			>30	HARD	L		<u> </u>				
NOTES	;			REPRESENT APPROXIN							
1		•		S HAVE BEEN MADE AT					WATER		
GZN)	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	SE PRESENT AT	THE TIME MEASUR	REMENTS WERE MAI	DE			<u>-</u> -
1 '	,									BORING NO.	GZA-127

GZA C	EOEN TH AVE	VIRONME NUE, 18TH FI	NTAL OF LOOR, NEW	NEW YORK YORK, NY 19001		PROJECT i. park Edgewater 45 River Road		REPOR		G NO. HEET E NO.	GZA-128/ 1 of 41.0161318.0	1
ENGINE	ERS AN	D SCIENTIST	rs			Edgewater New Jers	өу			CD BY		
BORING	CO.	Summit Drilling		DRILLING RIG	· · · · · · · · · · · · · · · · · · ·	1	BORING LOCATION	*************************************	Se	e Expl	oration Location Plan	
FOREMA		Denis Crayon		TYPE OF DRILLING	HSA	GROUN	ID SURFACE ELEV.		D.	ATUM		
GZA ENG	•	D. Salemo			_	1	DATE START	10/17/06	DATE	END	10/17/06	_
ľ				LER CONSISTS OF MER FALLING 30 IN		DATE	TIMĖ	GROUNDY WATER	VATER READ CASIN		STABILIZATION TII	ME
ŀ	UNLESS		OTED, CASING	DRIVEN USING A 300	lb							
CASING	SIZE:			<u></u>								
DEPTH	CASING			SAMPLE			SAMPLE DESCRI			R	STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"		BURMISTER CLASSI	FICATION		K	DESCRIPTION	TESTING
			10/8	0-2	53	Light brown f-m SANI	D, little Silt, little f Gra	avel		l	•	
		S1			50/4	(Hard pitch in bottom	of spoon)			İ		İ
						Refusal on hard pitch	; HSA to 2"			l		1
2.0												
•			4/0	2-4	50/4	Refusal on concrete				l		
		S2				HSA to 4".						
		-								l	FILL	
4.0]				İ		
-			24/10	4-6	4	Black m-c SAND				l		
İ					8	(concrete in bottom 3	")					
		S3			12]`	-					
6.0		1			12	1						1
			24/11	6-8	9	Black m-c SAND, littl	e Silt trace f Gravel					
1					4	(trace brick in top of				l		1
		S4			4	(Soft pitch in bottom						İ
8.0	 	1			5	Continuarin bolloin			İ			
°.0 -	 		04/44	840	7	Block - CAND SH	- Pitt trace (Comuni					
		1	24/14	8-10		Black m-c SAND, littl	e Siit, trace i Gravei			ŀ		
1	 	S5			14	(Hard pitch in top 4")				İ		
40.0	-	1			8	1				l		
10.0	 				<u> </u>					l		
1			24/10	10-12	6	Black m-c SAND, litti	e Siit, trace i Gravei			İ		
	<u> </u>	S6			3 ,	†						
		1			3	┨				l		İ
12.0	 	 	ļ		7	4				l		
	<u> </u>	-	24/10	12-14	9	Black m-c SAND, littl		(wood and glass)		i		
1	<u> </u>	S7			15	(Hard pitch in bottom	3")					1
1	<u> </u>	4			7	-						
14.0	-	<u> </u>		<u></u>	4	-						1
ŀ	<u> </u>	1	24/24	14-16	3	Black m-c SAND, littl	e Silt, trace f Gravel			l		
[<u></u>	S8	ļ		2	changing after 3" to E	Brown SILTY CLAY			1		
	<u></u>	Į	ļ		22	4						4
i	L	<u> </u>	ļ	L	3	l				1.	SILTY CLAY	1
1	GRANULA	R SOILS	COI	ESIVE SOILS	REMARKS:							
8	LOWS/FT	DENSITY	BLOWS/	FT CONSISTENCY	1. EOB @ 16'.							
0-4	VE	RYLOOSE	<2	VERY SOFT	ļ							
4-10	1	LOOSE	2-4	SOFT								
10-30		IUM DÉNSE	-4-8	M. STIFF	1							
30-50		DENSE	8-15	STIFF								
>50		RY DENSE	15-30	V. STIFF								
~	10		>30	HARD								
NOTES		1) STEATIEIG		EPRESENT APPROXIN	ATE ROUNDAR	Y BETWEEN SON TV	PES TRANSITIONS	MAY BE GRADU	AL.		· · · · · · · · · · · · · · · · · · ·	
NOTES	•	•		HAVE BEEN MADE A								
1_		•							MAILER			
GZ)	MAY OCCUR!	DUE TO UTHE	R FACTORS THAN THO	OE FRESENT A	THE TIME MEASUR	LIVIEIN I O WERE MA	UL			BORING NO.	GZA-128A

GZA (GEOEN	VIRONME	NTAL OF	NEW YORK	4	PROJECT		REPORT	OF BORING NO.	GZA-1	288
440 NIN	ITH AVE	NUE, 18TH F	LOOR, NEW	YORK, NY 10001		i. park Edgewate		3	SHEET		of 1
			·.	, t		45 River Road			FILE NO.		3,00
		D SCIENTIS			F	Edgewater New Jer	<u> </u>	<u></u>	CHKD BY	Militaria - grangia (1. 47-21.), anggana	
BORING		Summit Drilling		DRILLING RIG		0001	BORING LOCATION			oration Location Plan	
FOREMA		Denis Crayon		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV. DATE START		DATUM DATE:END		
GZA ENG	G.	D. Salemo			-		SAIL SIAK	10/11/00	5/112/215	100 (770)	
SAMPLE	R: UNLES	S OTHERWISE	NOTED, SAME	PLER CONSISTS OF				GROUNDW	ATER READINGS		
				IMER FALLING 30 IN		DATE	TIME	WATER	CASING	STABILIZATION	TIME
CASING	· INLESS	OTHERWISE N	OTED. CASING	G DRIVEN USING A 300	lb		T			<u></u>	
	R FALLING										
CASING	SIZE:						1				
DEPTH	CASING		DENIMEO	SAMPLE (ET)	BLOWS/6*	1	SAMPLE DESCRI BURMISTER CLASSI		R	STRATUM DESCRIPTION	FIELD
<u> </u>	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	4	1			- 18 .	DESCRIP), IOIV	TESTING 0
			24/7	0-2	7	1	ID, little Silt, trace f Gi Black f-m SAND (Harc			į	
l		S1			8			, p,			
2.0					8	1					
-			24/10	2-4	17	Brown f-m SAND, lit	tle Silt, trace f Gravel				0
ĺ		52			21	7	Black hard pitch mater	rial, trace f Gravel			0
ł		32			23		-	•		FILL	
4.0					17]					
-			24/5	4-6	48	Black f-m SAND, litt	le Silt, trace f Gravel				0
		\$3			28	(Hard pitch in botton	n of apoon, odor)				
l		-			17	1					
6.0					6	1					
ļ		}	24/0	6-8	6	No recovery				1	
		S4		<u> </u>	5	4					
İ	<u> </u>	1			5	4				-	
8.0	 				4	4					
	24/8 8-10 4					Black f-c SAND, little	e Silt, trace f Gravel (v	wood, glass, metal)			٥
ł	<u> </u>	S5			. 5	(silvery sheen coatir	ng soil)				
	<u> </u>	ł			9	1					
10.0	+			40.40	2		ma Cill base 4 Consul				
		1	24/4	10-12	3	TBIBOK IHIII SAND, SO	me Silt, trace f Gravel	1			"
1		S6			3	1					
12.0		1			4	1					
-	1	-	24/11	12-14	2	Same as above (she	en 5" from bottom)				
ł		1	2-1,1,		4	3	th pitch material in sho	oe)	-		
ł		S7			4]	•	•			
14.0		1			8]					1
			24/8	14-16	7	Same as above (cor	ncrete and brick)]	1
1		\$8			9	(sheen coating soil,	slight odor)			1	
] ~			11	1					
١.					11	1					
16.0		1	24/15	16-18	4	Black f-c SAND, little	e Silt, trace f Gravel (v	wood, glass, metal)			0
l		S9			10	changing after 3" to	Brown SILTY CLAY		}	1	٥
1		4			11	(Sheen and odor thr	oughout)				- °
		<u></u>	 	I	11	1				SILTY CLAY	
1	GRANULA	R SOILS	1	HESIVE SOILS	REMARKS:						
-	BLOWS/FT	DENSITY		FT CONSISTENCY	1. EOB @ 18'.						
0-4		RY LOOSE	<2 €	VERY SOFT	1						
4-10		LOOSE	2-4	SOFT							
10-30	MEC	IUM DENSE	4-8	M. STIFF							
30-50		DENSE	8-15	STIFF							
>50	VE	RY DENSE	15-30	V. STIFF							
			>30	HARD	<u> </u>						
NOTES	3 :			REPRESENT APPROXI							
1		•		S HAVE BEEN MADE A					WATER		
GZN	.)	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	DE PRESENT A	I IME IIME MEASUR	REMENIS WERE MA	UE		BORING NO.	GZA-128B
F	7									1	- ienn

GZA 0	EOÉN TH AVÉ	VIRONME IUE, 18TH F	NTAL OF LOOR, NEW	NEW YORK YORK, NY 10001		PROJECT		REPOR	T OF BORING NO. SHEET	GZA I	130 of 1
		D SCIENTIS				<u> </u>			FILE NO. CHKO BY		8.90
BORING	CO.	Summit Drilling		DRILLING RIG	CME	I .	BORING LOCATION		See Expl	oration Location Plan	7.0 3.00.0 000.0
FOREMA	•	John Murtha		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV.		DATUM		
GZA ENG	. .	M. Hayes			-	}	DATE START	10/17/08	DATE END	10/17/06	
<u> </u>											
ľ				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	GROUNDW WATER	VATER READINGS CASING	STABILIZATION	TIME
CASING:	UNLESS	OTHERWISE N	OTED. CASING	DRIVEN USING A 300	lb		1	· · · ·			
	RFALLING		,								
CASING	SIZE:				-		<u> </u>	<u> </u>			
DEPTH	CASING	SDOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6*	:	SAMPLE DESCRI BURMISTER CLASSI		R	STRATUM DESCRIPTION	FIELD TESTING
	BLOWS	SPOON NO	PENIREC	DEPTH (FT)	GLOVIGIO		DOTANO I EN CONCO	1,190,19914		DECORNII NON	IESTING
						1' asphalt			}		
		S1				1			ļ		
			24/22	1-3	5	Black SILTY CLAY,	changing after 6" to		į		
2.0					2	Black-brown-red f-c	SAND, little Silt (brick	and insulation)	ł		
ł					5	1		•	ĺ		
l		\$2			6	<u> </u>			į į		
l		92	24/18	3-6	4	Black hard pitch mat	erial, changing after 6	* to	ł	FILL	
4.0					2	Brown-red f-c SAND	, little Silt (brick, conc	rete)	l	į	
					3			•	1		
1				-		1			ŀ		
ļ		\$3			5	1					ľ
1			24/20	5-7	10	Black SILTY CLAY			1		
6.0					4	(pitch material, odor,	, and sheen)				
1				ļ	8	4					
		S4			20	_[Į.	-
1			24/24	7-9	45	Black f-c SAND, son	ne Silt		ŀ		1
8.0					5	(less viscous pitch th	noughout, very wet, o	bvious sheen)	Ì		1
					10						ł
	——	İ			10	1					
1	—	S5				Black house 6 a SAN	ID some CIN				
	-	ł	24/20	9-11	12	Black-brown f-c SAN					
10.0			 		10	(top 6" very wet, obv	(lous sneen)				
1	<u></u>	l			18	(Hard pitch in botton	n 1")		1		
	<u> </u>	S6			20	4					1
1			24/16	11-13	35	Black f-c SAND, son	ne Silt (very wet, obvi	ous sheen)			1
12.0	ļ				37	(Hard pitch in botton	n 6°')				-
					33	(f Gravel in shoe)					
l]			38				2		
1		1				EOB @ 13'.					
		1		1		1					
14.0	074177	1	1	HESIVE SOILS	REMARKS:		· · · · · · · · · · · · · · · · · · ·				
1	GRANULA		i		1	vas used until the 5-7°	ennon when suitehad	to 2" to toe for how	ter recovery		
	LOWS/FT			FT CONSISTENCY. VERY SOFT	2. Refusal at 1		upurusi, mitori owniui 190	wuy iui bei			
0-4		RY LOOSE	<2		Z. Reiusai at i	3 on concrete.					
4-10		LOOSE	2-4	SOFT	1						
10-30		IUM DENSE	4-8	M. STIFF							
30-50		DENSE	8-15	STIFF							
>50	VE	RY DENSE	15-30	V. STIFF							
			>30	HARD	1						
NOTES	i:	•		REPRESENT APPROXI							
•		•		S HAVE BEEN MADE A					OWATER		
GZ		MAY OCCUR	DUE TO OTHE	R FACTORS THAN TH	OSE PRESENT A	T THE TIME MEASUR	REMENTS WERE MA	DE			
1	y									BORING NO.	GZA-130

GZA 6	SEOEN TH AVE	VIRONME NUE, 18TH F	NTAL OF LOOR, NEW	NEW YORK YORK, NY 10001		PROJECT i. park Edgewate	r	REPÓR	T OF BORING NO SHEET	10	12
ENGINE	ERS AN	D SCIENTIS	T\$		-	45 River Road Edgewater New Jer	sey		FILE NO CHKD BY		00
BORING		Summit Drilling		DRILLING RIG	<u> </u>	l	BORING LOCATION	I	See Exp	loration Location Plan	
FOREMA		Denis Crayon		TYPE OF DRILLING	HSA	1	ND SURFACE ELEV.		DATUM		
GZA ENG		D. Salemo			-		DATE START	10/20/06	DATE END	10/20/06	
								.,,			
				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	GROUNDY WATER	ATER READINGS CASING	STABILIZATION	IME.
		OTHERWISE N	OTED CARNIC	DRIVEN USING A 300	. Ib.		1			T	
1	UNLESS FALLING		O IED, CASING	DRIVEN OSING A SOL				 			
CASING											
DEPTH	CASING			SAMPLE	T ====================================	ł	SAMPLE DESCRI		R	STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*		BURMISTER CLASSI	FICATION	К.	DESCRIPTION	TESTING
					ļ	HSA to 16'.				FILL	
		ŀ									
					<u></u>						
2.0											
[]]					
		1				1					
		1				1			-		
					 	1 .					
4.0 -					 	1					
		ł			<u> </u>	-					
		1		<u> </u>		1					Ì
1	<u> </u>	<u> </u>				<u> </u>					
6.0	<u> </u>]					
		1				1					
1		1			<u> </u>	1					
		1			<u> </u>	1					
8.0		 				1					
1		-				1					
		4			 	1					
1]			ļ	1					
10.0					<u> </u>	ŀ					
					J						
]				1					
l		1				1					
	_	1			1	1					
12.0	-	-		 		1					
1	<u> </u>	-		 	<u> </u>	1			1		
1	<u></u>	4		 	 	1					
1		4			ļ	1			1		
14.0	<u> </u>	<u> </u>		L	ļ					L	
1	GRANULA	R SOILS	CO	HESIVE SOILS	REMARKS:						
В	LOWS/FT	DENSITY	BLOWS/	FT CONSISTENCY	1. Continues ne	xt page.					
0-4	VE	RY LOOSE	<2	VERY SOFT							
4-10		LOOSE	2-4	SOFT							
10-30	MED	IUM DENSE	4-8	M. STIFF							
30-50		DENSE	8-15	STIFF							
>50		RY DENSE	15-30	V. STIFF							
-			>30	HARD.							
NOTES		1) STRATIFIC		REPRESENT APPROXIM	MATE BOUNDARY	Y BETWEEN SOIL TO	PES, TRANSITIONS	MAY BE GRADU	AL.		
NOTES	•	•		S HAVE BEEN MADE AT							
				R FACTORS THAN THO					····		
CZ)	MAT UGGUR	DUE TO UTHE	N FACTORS THAN THE	OL FRESENIA	THE THE MEASUR	LINENIO WERE WA			BORING NO.	GZA-131A

GZA G	EOFN	VIRONME	NTAL O	F NEW YORK	(PROJECT		RE	PORT OF BORING	NO.	GZA-131A	<u> </u>
				W YORK, NY 10001		i. park Edgewate)r				2 of 2	
						45 River Road			FILI	NO.	41.0161318.00	
ENGINE	ERS AN	D SCIENTIS	TS	-	E	dgewater New Jer	rsey		CHK	DBY		
							DNIA AT 1	l.,	n			······
BORING O		Summit Drilling		DRILLING RIG TYPE OF DRILLING	HSA	1	RING LOCATION SURFACE ELEV.		See Explora	TUM	CAUON PIAN	
FOREMAI GZA ENG		Denis Crayon D. Salemo		TIPE OF DRILLING	11971	S.COND.	DATE START		•	END	10/20/06	,
GEA ENG	•	J. Salerilo			•							•
SAMPLER	: UNLESS	OTHERWISE	NOTED, SAM	PLER CONSISTS OF				GROUNDY	VATER READINGS			
A 2" SPLI"	r spoon !	DRIVEN USING	A 140 lb. HA	MMER FALLING 30 IN		DATE	TIME	WATER	CASING		STABILIZA	TION TIME
									l			
			OTED, CASIN	IG DRIVEN USING A 300	ib							
CASING S	FALLING : SIZE:	£.7 114.										
	CASING			SAMPLE			SAMPLE DE	SCRIPTION		R	STRATUM	
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*		BURMISTER C	LASSIFICATION		ĸ	DESCRIPTION	FIELD TESTING
			24/2	14-16	24	f GRAVEL			1			
]			26							
		S8			22							
16.0		1			28	1						
-			13/2	16-18	22	f GRAVEL			ļ	i		1
		İ	13/2	10-10		- GRAVEL			1			İ
		S9			48	-						
	<u> </u>	4			100/1	HSA to 18'.						
18.0												ļ
]				EOB @ 18' (reft	usal).					
ļ]				1						
		}									į	
20.0		1				}			Ì			
-		,				1			1			
		1				1						
	_	1				†						
L		-		 	 	1						
22.0	-	-				┥						
ļ		4			 	-						
l		4				4						
		_				4			1			
24.0	l		<u> </u>			_						l
												ĺ
l		1										}
1		1				1					Ì	
		1				1						1
26.0	+	 	1	 	 	1						
1	<u> </u>	-			 	1					1	
1	<u></u>	4		 		4			1		1	
	L	4	L		ļ	4						1
28.0		1	<u> </u>	L	ļ	<u> </u>					<u></u>	<u></u>
	GRANULAI	RSOILS	Co	HESIVE SOILS	REMARKS:							
В	LOWS/FT	DENSITY	BLOWS	S/FT CONSISTENCY	4							
0-4	VEI	RY LOOSE	<2	VERY SOFT								
4-10	!	LOOSE	2-4	SOFT								
10-30	MED	IUM DENSE	4-8	M. STIFF								
30-50		DENSE	8-15	STIFF								
>50	VE	RY DENSE	15-30	V. STIFF]							
L			>30	HARD								
NOTES:		1) STRATIFI	CATION LINE	S REPRESENT APPROX	MATE BOUNDA	RY BETWEEN S	OIL TYPES, TRAN	NSITIONS MAY B	E GRADUAL.			
1				IGS HAVE REEN MADE A								

MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

BORING NO. GZA-131A

GZA 0 440 NIN	A GEOENVIRONMENTAL OF NEW YORK NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 16001					PROJECT 1. park Edgewate		REPORT	OF BORING NO. SHEET	1 of	1
,		D SCIENTIST	•	•		45 River Road Edgewater New Jen	sév		FILE NO. CHKD BY		0
				DON LINE BIC			BORING LOCATION			oration Location Plan	
BORING FOREMA		Summit Drilling Denis Crayon		DRILLING RIG TYPE OF DRILLING	HSA	1	ND SURFACE ELEV.		DATUM		
GZA ENG		D. Salerno				1	DATE START		DATE END		_
				LER CONSISTS OF MER FALLING 30 IN		DATE	TIME	GROUNDW WATER	ATER READINGS CASING	STABILIZATION TI	ME
		OTHERWISE N	OTED CASING	DRIVEN USING A 300	n.	<u></u>		<u> </u>		I .	
!	RFALLING		0120, 0.31140	BRIVEN COM A SOC							
CASING											
DEPTH	CASING			SAMPLE CET	DI-CIME (C)		SAMPLE DESCRI		R	STRATUM DESCRIPTION	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*		BURMISTER CLASSI	FIGATION			TESTING
						HSA to 16'.				FILL	
					<u> </u>	-					
		()				4					
16 _		<u> </u>			<u> </u>	ļ					
			24/4	16-18	12	Black f-c SAND, little	Silt, trace f Gravel (n	netal, wood, brick)			1
		S1			18	1					1
					28	1					1
18.0					14]					_
			24/3	18-20	7	Gray Silty CLAY				CLAY	1
1		_			14						1
		S2			20	1					
20.0		1			26	1			1		
20.0	 	-				EGD @ 30					1
		1				EOB @ 20°.					
		-				1					
		4				1					
l -						1					
1		<u> </u>				1			ŀ		
l		1			ļ	-					
					ļ	4					
١.											
]					
1]									
		1									
		1									1
-	T	1									
1		1				1			ŀ		
l		1			<u> </u>	1			ļ		l
1	—	1			 	1			ŀ		1
 		<u> </u>		L	DEMARKS	1				1	· · · · · · · · · · · · · · · · · · ·
1	GRANULA		i .	ESIVE SOILS	REMARKS:						
	LOWS/FT			FT CONSISTENCY	1						
i	0-4 VERY LOOSE <2 VERY SOFT										
I	4-10 LOOSE 2-4 SOFT 10-30 MEDIUM DENSE 4-8 M. STIFF										
1											
	30-50 DENSE 8-15 STIFF										
>50	VE	RY DENSE	15-30	V. STIFF							
<u> </u>			>30	HARD	ATE EQUALS:	v permeti con	DEC TRANSPORT	MAY DE COAP	···		
NOTES	:			EPRESENT APPROXIM							
_				HAVE BEEN MADE AT					WATER		
GZ)	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	GE FRESENT A	I ITE IIME MEASUF	VENICH IS WERE MAI	-		BORING NO.	GZA-131B
. ′											

				NEW YORK YORK, NY 10001		PROJECT i. park Edgewate		REPOR	T OF BORING NO. SHEET	GZA-13:	1
ENGINI	EEDS AN	ID SCIENTIST	rs			45 River Road Edgewater New Jen	Sev		FILE NO. CHKO BY	41.0161318.00	1
<u> </u>				DRILLING RIG	CME		BORING LOCATION	L		pration Location Plan	
BORING FOREMA		Summit Drilling John Murtha		TYPE OF DRILLING	HSA	1	ND SURFACE ELEV.		DATUM	TRACTI LOCATION FIRM	
GZA EN		M, Hayes and D			.,,_,		DATE START		DATE END	10/12/06	<u>-</u>
					-	<u> </u>					
				PLER CONSISTS OF MMER FALLING 30 IN		DATE	TIME	GROUNDY WATER	VATER READINGS CASING	STABILIZATION TIM	AE
CASING	UNLESS	OTHERWISE N	OTED. CASING	G DRIVEN USING A 300	lb			I			
ŀ	R FALLING										
CASING							<u> </u>	<u> </u>	<u> </u>		
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"	1	SAMPLE DESCRI BURMISTER CLASSI		R	STRATUM DESCRIPTION	FIELD
	BLOWS	SPOONING						, IOATION		DESCRIPTION	TESTING
ł		1	24/24	0-2	2	Brown f-m SAND, litt			1		0
		S1			3	(trace brick and orga	nic material)		ļ		0
1	<u> </u>				14	4					0
2.0	<u> </u>				40	4					0
1		j	24/19	2-4	20	Black f-m SAND, littl	e Silt, little f Gravel				
		S2			35	(trace brick)					0
] -			20						
4.0					21				1		
-	i					EOB @ 4'.					
		1				1200 64:			ĺ		ŀ
1	\vdash	53		 		1					
	<u> </u>	-		<u> </u>		-					
6.0					 						
1		<u> </u>									1
		S4		<u> </u>		_					
İ]							ļ		
8.0		1				1			- 1		
•	†	1							l		
1		1		 	<u> </u>	1					
l	-	S5			 	-{					
	-	4		 	 	-					
10.0	ļ <u>.</u>				ļ	4			,		
	L				<u> </u>	1			į.		
1	i	S6		ĺ					İ		
ł		7 "			,				ŀ		
12.0		7		1	1	7					
'	†	<u> </u>				1					ŀ
l		1				1					
1	-	- S7		 		1			- 1		
	-	4		 					i		
14.0	<u> </u>	1				<u>i</u>				L	1
1	GRANULA	R SOILS	co	HESIVE SOILS	REMARKS:						
	BLOWS/FT DENSITY BLOWS/FT CONSISTENCY 1. Sample				1. Sample take	n at 3.5-4' at 15:20 for	Cr(VI).				
0-4	V.E.	RY LOOSE	<2	VERY SOFT	1						
4-10	4-10 LOOSE 2-4 SOFT										
10-30	10-30 MEDIUM DENSE 4-8 M. STIFF										
30-50		DENSE	8-15	STIFF							
>50											
1	>30 HARD										
NOTES	i:	1) STRATIFIC		REPRESENT APPROXIA	AATE BOUNDAR	Y BETWEEN SOIL TO	PES, TRANSITIONS	MAY BE GRADU	IAL.		
[•		S HAVE BEEN MADE AT							
_				R FACTORS THAN THO							
GZN)	MAI JUUUN								BORING NO.	GZA-132

GZA-132

GZA 0	ZA GEOENVIRONMENTAL OF NEW YORK O NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001					PROJECT i. park Edgewater	r vale	REPOR	T OF BORING NO SHEET		
		ID SCIENTIS				45 River Road Edgewater New Jers	±on:		FILE NO		10
				DRILLING RIG	<u> </u>	1	BORING LOCATION	[William Control of the Control of th	
BORING FOREMA		Summit Drilling Denis Crayon		TYPE OF DRILLING	HSA	1	ND SURFACE ELEV.		DATUM	loration Location Plan	
GZA ENG		D. Salemo					DATE START		DATE END		_
<u> </u>											
i .				LER CONSISTS OF MER FALLING 30 IN		DATE	TIME	GROUNDW WATER	ATER READINGS CASING	STABILIZATION TI	ME
CASING:	UNLESS	OTHERWISE N	OTED. CASING	DRIVEN USING A 300	lb		:	l		T .	
1	FALLING										
CASING		r						İ	<u> </u>		
DEPTH	CASING	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6*	1	SAMPLE DESCRI BURMISTER CLASSI		R	STRATUM DESCRIPTION	FIELD
			24/14	0-2	25		le Silt changing after:				0
		1			40	Concrete and brick of					ا ر
1		S1			30	Black f-m SAND (ode					
L. 1					32	DIACK (-III SANAD (OUI	,,,				
2.0						1					
			24/0	2-4	46	No recovery					
		S2			32	1					
		}			28	ł				FILL	
4.0					21	4					
		1	24/0	4-6	6	No Recovery					
		S3			7						
ì					7						
6.0					8	1			11		1
1		1	24/22	6-8	16	Black SILTY CLAY,	changing after 8" to			}	0
		54	,		6	Black f-c SAND, little	Silt, trace f Gravel (v	vood, metal, brick)			0
		S4 8				changing after 3" to E	Brown SILTY CLAY				0
8.0		1			17					SILTY CLAY	7 。
-						EOB @ 8'.					
		1							1		
1		\$5									
10.0	-	1				1			}		
-	<u> </u>	<u> </u>				1					
		1				1					
		S6				1					
1		1							}		
12.0		 									
1	 	-			 	1					
ĺ	<u> </u>	\$7				1			ŀ		
1	<u> </u>	-			 	{					
14.0	<u> </u>	<u> </u>		<u> </u>	ļ	I				I	
1 '	GRANULAI	R SOILS	ł	ESIVE SOILS	REMARKS:						
В	LOWS/FT			FT CONSISTENCY	1. Water table o	observed at 5.5-6'.					
0-4		RY LOOSE	<2	VERY SOFT	1						
4-10		LOOSE	2-4	SOFT							
10-30		IUM DENSE	4-8	M. STIFF							
30-50		DENSE	8-15	STIFF							
>50 VERY DENSE 15-30 V. STIFF											
ļ			>30	HARD					<u> </u>		
NOTES:		· ·		EPRESENT APPROXIN							
		-		HAVE BEEN MADE AT					WATER		
GZN)	MAY OCCUR	DUE TO OTHER	R FACTORS THAN THO	SE PRESENT AT	THE TIME MEASUR	EMENTS WERE MAI	DE		BORING NO.	074 1001
. ′										DUMING NO.	GZA-133A

	ZA GEOENVIRONMENTAL OF NEW YORK 0 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001					PROJECT I. park Edgewate		REPOR	T OF BORING NO. SHEET	1	of 1
ENIONI	EDC AN	D SCIENTIO	T.C.			45 River Road Edgewater New Jen	ZAV		FILE NO.		3.00
		D SCIENTIS			<u> </u>	1	<u> </u>				
BORING FOREMA	•	Summit Drilling Denis Crayon		DRILLING RIG TYPE OF DRILLING	HSA	1	BORING LOCATION ND SURFACE ELEV.		See Exp DATUM	oration Location Plan	
GZA ENG	•	D. Salemo		TIPE OF BRIDEING	TION	1	DATE START	10/18/06	DATE END		_
	•										
				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	GROUNDW WATER	ATER READINGS CASING	STABILIZATION	TIME
CASING	LINII ECC.	OTHERWSE N	OTED CASING	3 DRIVEN USING A 300	th.				<u> </u>	<u> </u>	
	ONLESS R FALLING		O I ED, CASING	S DRIVEN USING A 300	10						
CASING											
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6*	,	SAMPLE DESCRI BURMISTER ÇLASSI		R	STRATUM DESCRIPTION	FIELD TESTING
	BLOWG	GI CONTIO	72,0100			HSA to 2'.				Jacon III III	TESTING
j						FIGA IV Z.			1		-
1		S1				1			l		
١.	<u> </u>					1					
2.0						<u> </u>					
			24/20	2-4	11	Brown-black f-m SAI					٥
ŀ		S2			16	(Wood and brick in to	op of spoon)				٥
l					17	1					0
4.0	ļ				20	-			Ţ		٥
1	<u> </u>		24/14	4-6	15	Light brown 1-m SAN	D, little Silt (organic m	naterial)	1		0
		S3			14	(Black staining in bot	tom 9")				0
				ļ	12	4					0
6.0					15						0
	<u> </u>				ļ	ЕОВ @ 6".					
1		S4				1					
		S4]					
8.0						1					
]					
		S5				1					
1		33									
10.0		}]					
-]					
		1				1					
		S6				1					
12.0		1			1	1					
'	 -	 				1					
		1			<u> </u>	1					
		S7	 	 	 	1					
	 	1	ļ	 	†	1			į	İ	
14.0	<u> </u>	L	 			<u> </u>			L		
1	GRANULAF			HESIVE SOILS	REMARKS:						
F	LOWS/FT		1	FT CONSISTENCY	i. Sample takei	n at 4-4,5' at 13:45.					
0-4		Y LOOSE	<2	VERY SOFT	l						
4-10		OOSE	2-4	SOFT	į						
10-30		UM DENSE	4-8	M, STIFF	<u> </u>						
30-50		DENSE	8-15	STIFF	İ						
>50	VEF	RY DENSE	15-30	V. STIFF	ļ						
NOTES		4) CTDATIE10	>30	HARD •	ATE BOI MIDADA	(BETWEEN SOIL TV	DES TRANSITIONS	MAY BE COACH	<u> </u>		
NOIES:	•			S HAVE BEEN MADE AT							
		•		R FACTORS THAN THO					TTTTIME		
GZ)				- · · · · · · · · · · · · · · · · · · ·					BORING NO.	GZA-133B

	A GEOENVIRONMENTAL OF NEW YORK NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001					PROJECT i. park Edgewater		REPOR		EFT.	GZA-134 1 of 1	
ÉNGINE	ERS AN	D SÇIENTIST	s			45 River Road Edgewater New Jers	98V		FILE		41.0161318.00	
BORING				DRILLING RIG		, 	BORING LOCATION	<u> </u>			oration Location Plan	Control appear and
FOREMA	•	Summit Drilling Denis Crayon		TYPE OF DRILLING	HSA	1	ND SURFACE ELEV.		DAT			
GZA ENG	•	D. Şalerno					DATE START	10/19/06	DATE E	END	10/19/06	
<u> </u>									a . 17 e .		, -	
				PLER CONSISTS OF					VATER READIN	IGS	·	_
A 2" SPLI	T SPOON	DRIVEN USING	A 140 lb. HAM	IMER FALLING 30 IN		DATE	TIME	WATER	CASING		STABILIZATION TIM	E
CASING:	UNLESS	OTHERWISE N	OTED. CASING	DRIVEN USING A 300	tb				T			
	FALLING											
CASING								<u> </u>	<u> </u>	_		
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6"	† ,	SAMPLE DESCRI BURMISTER CLASSI			R	STRATUM DESCRIPTION	FIELD TESTING
			24/12	0-2	В), some Silt, trace f G					0
					13		,			- 1		0
		S1			. 11					- 1		
2.0		1			7.	1			}		FILL	ľ
			24/14	2-4	4	Black m-c SAND, little	le Silt		1	- 1		
1			240(7		6	(concrete at top of sp			İ			
		S2			10	1						
4.0		1			12	1						ľ
			24/12	4-6	3	Brown-black f-m SAN	un little Silt (holds)		I.			
1		1	24/12		7	(soft pitch material th			ľ			54.8
į		S3			17	Capit picon material d	il orginout)		ŀ			54.0
6.0		1			16	1						
°.° -			***			EOB @ 6".						
•		SA				1208 @ 6.						
1		S4				1						
	\vdash	1				†				ı		
8.0	<u> </u>					1				i		İ
		†				1						
	<u> </u>	S5				1						
l.,		1				1				,		
10.0	_					1						
1		1				1						
1		- S6		<u> </u>		1]
	<u> </u>	1				1			İ			
12.0					<u> </u>	1						1
1		1		†		1			i]
		S7				1						i l
		1				1						
14.0			001	IESIVE SOILS	REMARKS:	L			·			
1	GRANULA'	R SOILS DENSITY		FT. CONSISTENCY	1	n at 4.5-5' at 9:10.						
04		RY LOOSE	<2	VERY SOFT	1. Gampio iako	u. 4.5-0 u. 5. 10.						
4-10												
10-30 MEDIUM DENSE 4-8 M. STIFF]							
30-50 DENSE 8-15 STIFF					1							
>50		RY DENSE	15-30	V: STIFF								
			>30	HARD	1							
NOTES	:	1) STRATIFICA	ATION LINES F	REPRESENT APPROXIM	IATE BOUNDAR	Y BETWEEN SOIL TY	PES, TRANSITIONS	MAY BE GRADU	AL.			
1		2) WATER LE	ÆL READINGS	S HAVE BEEN MADE AT	TIMES AND UN	DER CONDITIONS ST	TATED, FLUCTUATIO	ONS OF GROUND	WATER			
		MAY OCCUR I	DUE TO OTHE	R FACTORS THAN THO	SE PRESENT A	THE TIME MEASUR	EMENTS WERE MAI	DE				

GZA-134

GZN)

	A GEOENVIRONMENTAL OF NEW YORK NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001					PROJECT j. park Edgewate		REPOR	T OF BORING NO SHEET		of 1
ENGINE	ERS AN	D SCIENTIST	rs			45 River Road Edgewater New Jers	sey		FILE NO		18.00
BORING		Summit Drilling	:	DRILLING RIG			BORING LOCATION			loration Location Plan	
FOREMA	•	Denis Crayon			HSA	1	ND SURFACE ELEV.		DATUM		
GZA ENG	•	D. Salerno					DATE START	10/18/06	DATE END	10/18/06	
									10		
				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	GROUNDW WATER	ATER READINGS CASING	STABILIZATION	N TIME
CASING	LINI ESS	OTHERWISE N	OTED CASING	DRIVEN USING A 300	lb						
	RFALLING				-						
CASING	SIZE:					ļ			<u> </u>		
DEPTH	CASING	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6*	•	SAMPLE DESCRI BURMISTER CLASSI		R	STRATUM DESCRIPTION	FIELD TESTING
 	BLOWS	SPOUNTNO								OLGANI NOI	
1			14/6	0-2	25	Gray m-c SAND, little	e Siit, trace f Gravel (t	race DNCK)			٥
		S1			30	1					
1	ļ				50/2	HSA to 2'.					
2.0 _											
				ļ .		EOB @ 2'. Refusal	on concrete.		İ		
ļ.		S2				1					
1											
4.0						1					
•]					
]					
İ		\$3				1					
		1			<u> </u>	†					
6.0	_	-				ł					
			-	 	<u> </u>	1	٠			į	
	<u> </u>	S4				1					
						1				1	
8.0	l									1	
	Ι				<u> </u>]	
		S5 .									
] "				1					
10.0	<u> </u>	1				1					
-	 			T		1					
		1				1					
		S6				1					
	<u> </u>	-		 		4				i	
12.0	<u> </u>		<u> </u>		ļ	4					
1	L				ļ	4				1	
Į.		S7		<u> </u>]				1	
1]			<u> </u>	1					
14.0]]					
	GRANULAI	R SOILS	CO	HESIVE SOILS	REMARKS:						
			i	FT CONSISTENCY	1. EOB @ 2' du	ie to refusal. Moved b	oring to try for better r	ecovery.			
0-4							•				
4-10											
	19-30 MEDIUM DENSE 4-8 M. STIFF										
1	30-50 DENSE 8-15 STIFF										
1	>50 VERY DENSE 15-30 V. STIFF										
"	>50 VERY DENSE 15-30 V. 311F										
NOTE	NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDAR						PES TRANSITIONS	MAY BE GRADIII	AL.		
NOTES	•			S HAVE BEEN MADE AT							
		-		R FACTORS THAN THO							
CZ)	MAT OCCUR	DOE TO GIME		I NEULITI A	I I I I I I I I I I I I I I I I I	THE PERSON NAMED IN COLUMN			BORING NO.	GZA-135A

GZA-135A

GZA (440 NIN	SEOEN	VIRONME NUE, 18TH F	NTAL OF LOOR, NEW	NEW YORK YORK, NY 10001		PROJECT	r,	REPOR	T OF BORING NO. SHEET	16	of 2
ENGIN	EERS AN	ID SCIENTIS	īS			45 River Road Edgewater New Jer	Sey		FILE NO. CHKO BY		.00
BORING		Summit Drilling		DRILLING RIG	t		BORING LOCATION	l	See Exp	loration Location Plan	
FOREMA	•	Denis Crayon		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV.		DATUM		_
GZA ENG	3.	D, Salerno			-		DATE START	10/18/06	DATE END	10/18/06	
SAMPLE	R: UNLES	S OTHERWISE	NOTED, SAME	PLER CONSISTS OF				GROUNDW	ATER READINGS		
				IMER FALLING 30 IN		DATE	TIME	WATER	CASING	STABILIZATION	TIME
CASING:	UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300	lb						
HAMMER CASING	R FALLING	24 IN.					 				
	CASING			SAMPLE			SAMPLE DESCRI		R	STRATUM	FIELD
<u> </u>	BLOWS	SPOON NO	PEN/REC	DEPTH (F1)	BLOWS/6"		BURMISTER CLASSI	FICATION	K	DESCRIPTION	TESTING
						HSA to 2".					
ĺ	<u> </u>	\$ 1				1					
						-					
2.0						1					
			24/4	2-4	12	Brown f-m SAND, lit	tle Silt				0
1		S2			50	(trace brick and cone	crete in bottom 2")				
					10	1					
4.0 -					7	4			İ		
l			24/2	4-6	3	Brown f-m SAND, lit	tle Silt (brick)			FILL	0
		S3			4	_					
1		-			3	4					
6.0	 				4	4					
		1	24/4	6-8	10	Black CLAYEY SILT	, trace Brown f-m SAN	ID.			٥
ŀ		54			12	(concrete in bottom :	2")		}	1	
		ł			10	4					
8.0 -	├		ļ	<u> </u>	26	-					
]		1	24/9	8-10	11	Red-brown f-m SAN	D, little Silt, trace f Gra	avei			٥
	<u> </u>	S5		ļ	10	(brick top 3")					0
ļ	<u> </u>	1			11	4			}		
10.0 _	<u> </u>				9	4					
1		4	24/10	10-12	25	Gray f-m SAND, little	e Silt changing after 1°	'to			0
1	-	S6			13	Black m-c SAND, tra	ace f Gravel (wood and	t brick)			0
		1			6	-					
12.0	1			 	5	4					
1	-	1	24/7	12-14	2	Black m-c SAND, litt	tle Silt, little f Gravel				0
I		S7			6	1				1	0
ł	-	1			8	-					
14.0	1	<u> </u>	ļ 		11	J				L	L
į.	GRANULAI		i	HESIVE SOILS	REMARKS:						
0-4	LOWS/FT	RY LOOSE	SLOWS/	FT CONSISTENCY VERY SOFT	1						
4-10		LOOSE	2-4	SOFT							
10-30		IUM DENSE	4-8	M. STIFF							
30-50		DENSE	8-15	STIFF	1						
>50		RY DENSE	15-30	V. STIFF							
L			>30	HARD							
NOTES	:	1) STRATIFIC	ATION LINES F	REPRESENT APPROXIM	IATE BOUNDARY	Y BETWEEN SOIL TY	PES, TRANSITIONS	MAY BE GRADUA	NL.	·	
l		2) WATER LE	VEL READINGS	S HAVE BEEN MADE AT	TIMES AND UN	DER CONDITIONS S	TATED, FLUCTUATIO	NS OF GROUND	WATER		
GZ	1	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	SE PRESENT AT	THE TIME MEASUR	REMENTS WERE MAI	DE			
1	y									BORING NO.	GZA-135B

GZA G	EOEN\	/IRONME	NTAL OF	NEW YORK		PROJECT	RÉ	PORT OF BORING	NO.	- GZA-135B	
440 NIN	TH AVEN	UE, 18TH F	LOOR, NEW	YORK, NY 10001		i, park Edgewater			HEET		
						45 River Road	_		NO.	41.0161318,00	
ENGINE	ERS ANI	SCIENTIS	STS		E	dgewater New Jersey		CHK	D BY	 	
BORING (:O.	Summit Drilli	ng	DRILLING RIG		BORING LOCATE	ON	See Exploration	n Loc	ation Plan	
FOREMAI	4	Denis Crayon		TYPE OF DRILLING	HSA	GROUND SURFACE EL	EV	D/	TUM		
GZA ENG	•	D. Salerno				DATE STA	RT 10/18/06	DATE	END	10/18/06	•
SAMPLER	: UNLESS	OTHERWISE	NOTED, SAMPL	ER CONSISTS OF			GROUNDW	ATER READINGS			
A 2" SPLI	SPOON D	RIVEN USING	6 A 140 lb. HAMN	ER FALLING 30 IN		DATE TIME	WATER	CASING		STABILIZATIO	N TIME
		THE DIMINE A	OTED CASING	DRIVEN USING A 300 II		· · · · · · · · · · · · · · · · · · ·	1 1			<u> </u>	
ŀ	FALLING 2		O IED, CASING	DRIVEN CSING A 300 II	•	-	1		-		
CASING 8											
DEPTH	CASIŅG			SAMPLE	r.·	1	EDESCRIPTION		R	STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*	BURMISTE	R CLASSIFICATION		K	DESCRIPTION	TESTING
			24/11	14-16	6	Black m-c SAND, little Sift, little	e f Gravel				0
		S8			5	_					0
					4	1					
16.0			ъ		4	1		j		FILL	
_			24/16	16-18	5	Similar to above					0
] _			4			ļ			D
ŀ		S9			6	1					o
18.0		1 !			4	1					
-			24/18	18-20	3	Brown f-m SAND, some Silt, tr	are f Gravel				
	<u> </u>	1	24/15	10-20	4	1		4			
1		S10				changing after 9" to black m-c	SAND, little Sir, trace	gravei		1	0
		1			3	1					0
20.0					4	1					ł
			24/9	20-22	3	Brown SILTY CLAY				SILTY CLAY	0
•		S11		, <u></u>	3	4		i .			0
1	<u> </u>	ļ			3	1					
22.0		<u> </u>			2						
]				EOB @ 22'.					
]					
						<u>]</u>					
1		1]		1			
•]		ĺ			
ļ		1									
j	-	1				1		i			
1		j			 	†					
1 .	\vdash	1				1		ŀ			
		1			 	†		ł			
1		1			 	1					
		4	<u> </u>			-		1]
<u></u>	L	<u> </u>	-	L	<u> </u>	<u> </u>	0 - 40			1	I
1	RANULAR			ESIVE SOILS	REMARKS:						
	OWS/FT D			T CONSISTENCY	1						
0-4		LOOSE	<2	VERY SOFT	1						
4-10		DOSE	2-4	SOFT							
10-30		IM DENSE	4-8	M. STIFF							
30-50		ENSE	8-15	STIFF	1						
>50	VER	Y DENSE	15-30	V. STIFF							
-			>30	HARD	<u> </u>						
NOTES:		-				Y BETWEEN SOIL TYPES, TR					į
						IDER CONDITIONS STATED, F		ROUNDWATER			
GZN)	MAY OCCU	IR DUE TO OTHE	R FACTORS THAN THE	DSE PRESENT A	T THE TIME MEASUREMENTS	WERE MADE			BOBING NO	

BORING NO. GZA-135B

GZA (ZA GEOENVIRONMENTAL OF NEW YORK 0 NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001					PROJECT I. park Edgewate		REPOR	T OF BORING NO. SHEET FILE NO.	1	of 1
ENGINE	EERS AN	D SCIENTIS	rs			45 River Road Edgewater New Jer	sey		CHKD BY		
BORING	CO.	Summit Drilling		DRILLING RIG	<u> </u>	İ	BORING LOCATION		See Explo	oration Location Plan	
FOREMA		Denis Crayon		TYPE OF DRILLING		GROU	ND SURFACE ELEV.		DATUM		
GZA ENG	3.	D. Salerno			•		DATE START	10/13/06	DATE END	10/13/06	_
							 				
				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	WATER	VATER READINGS CASING	STABILIZATION	TIME
CASING:	: UNLESS	OTHERWISE N	OTED, CASING	DRIVEN USING A 300	1b						
	R FALLING		•								
CASING		,		<u>.</u>			<u> </u>	<u> </u>	L		
DEPTH	CASING BLOWS	SPOON NO	PEN/REC	SAMPLE DEPTH (FT)	BLOWS/6*	}	SAMPLE DESCRI BURMISTER CLASSI		R	STRATUM DESCRIPTION	FIELD TESTING
	BLOWS	SPOCITIO		0-2	23	Gray-black m-c SAN				-	o
			24/11	U-2		Gray-black fire GAN	D, some i Glaves				0
		S1			32	1					ľ
	<u> </u>				31	-					
2.0	 				2	1			-		
			24/7	2-4	5	Black m-c SAND, litt	ie Siit, trace f Gravel		į		0
•	<u></u>	S2			16	1					0
	L				5	4					
4.0	<u> </u>				4				1		
						EOB @ 4".			- 1	•	
									ļ		
									j		
		1									
6.0	-								ļ		
		ł			-				ŀ		
		4			 	-			- 1		
	<u> </u>	1				4					
8.0						4				ļ	
}	<u></u>	}		_		_					
1											
10.0		1							ı		
•]					1
1		1				1			•	1	
	ļ	1				1					
	-	┪	 		 	1					
12.0	 	+	-		 	1					
		4		ļ		+			1		
l	ļ	4		ļ	↓	4					
1		1				4			ĺ		
14.0		1				1		····	<u> </u>	<u> </u>	
	GRANULA	R SOILS	CO	HESIVE SOILS	REMARKS:						
1	BLOWS/FT		BLOWS/	FT CONSISTENCY	1. Sample take	n at 3.5-4' at 14:45 fo	Cr(VI).				
0-4		RY LOOSE	<2	VERY SOFT							
4-10											
10-30	ID-30 MEDIUM DENSE 4-8 M. STIFF										
30-50		DENSE	8-15	STIFF	-						
>50 VERY DENSE 15-30 V. STIFF											
	-		>30	HARD							
NOTES	S:	1) STRATIFIC		REPRESENT APPROXIM	ATE BOUNDAR	Y BETWEEN SOIL T	PES, TRANSITIONS	MAY BE GRADU	JAL.		
[S HAVE BEEN MADE A							
				R FACTORS THAN THO							
CZ))									BORING NO.	GZA-136

	A GEOENVIRONMENTAL OF NEW YORK NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001					PROJECT i. park Edgewater		REPORT	T OF BORING NO		1-137 1 of 1
130 1111		102, 101111				45 river Road			FILE NO		
ENGINE	ERS AN	D SCIENTIS	TS			Edgewater New Jers	sey		CHKD B	(
BORING	CO.	Summit Drilling		DRILLING RIG			BORING LOCATION		See Exp	oloration Location Plan	
FOREMA	N .	Denis Crayon		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV.		DATUN		
GZA ENG	š	D. Salemo			•	İ	DATE START	10/18/06	DATE EN	10/18/06	
								323.6.2.7			
				LER CONSISTS OF MER FALLING 30 IN		DATE	TIME	GROUNDW WATER	CASING	STABILIZATIO	N TIME
CASING	LIMI ESS	OTHERWISE N	OTED CASING	DRIVEN USING A 300	lb					1	
	REALLING		0125, 0/10/11		-						
CASING											
DEPTH	CASING			SAMPLE	DI OUIOM	1	SAMPLE DESCRI		R		FIELD
<u> </u>	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"		BURMISTER CLASSI	FICATION	K	DESCRIPTION	TESTING
			24/12	0-2	2	Brown f-m SAND, litt	lle Silt, trace f Gravel				0
		S 1			5	(organic material)					. •
					9	1					
2.0					11	1					
7			24/16	2-4	10	Dark brown 1-m SAN	D, some Silt				0
1					11	(concrete in bottom of				1	0
		52			10	(Hard PA in middle o					0
4.0					10	1				1	"
-											
1			24/13	4-6	12	1	me sift changing after				0
1		S3	<u> </u>		15	1	Silt (concrete) (black	.]	1	0	
		ļ	ļ		17	changing after 4" to I	Black m-c SAND,		1	FILL	
6.0					12	little f Gravel (concre	ete and brick)				
1		<u> </u>	24/10	6-8	66	Black-brown m-c SA	ND, little f Gravel (cor	ncrete and brick)			0
i		S4	İ		12	<u> </u>				0	
1		1 ~			15	1		ļ			
8.0		1			18	1				1	
-	—		21121	8-10	4	Similar to above					
1		†	24/24	8-10		Sillinai to above				1	
1	-	S5			6	-					0
1	-		ļ		6	+					٥
10.0	<u> </u>				8	-			1		0
	<u></u>		24/15	10-12	3	Brown f-m SAND, so	ome Silt (organic mate	erial)			
1		S6			2	changing after 11" to	Black m-c SAND, litt	ie f Gravel (concre	ete		
]		<u></u>	4	and brick)					
12.0					4	_					
1 -				12-14	6	Same as above, cha	inging after 2" to Brow	n SILTY CLAY (w	ood)		
1		1			6]		- ·· (···		SILTY CLAY	
1	-	S7			6	1					
1	-	1				500.6 11	*				"
14.0	<u></u>	L		<u></u>	6	EO8 @ 14'.			12.	. L	
	GRANULA			HESIVE SOILS	REMARKS:						
B	LOWS/FT			FT CONSISTENCY	T	n at 5-5.5' at 13:20.					
0-4	* .					-					
4-10											
10-30											
30-50	l i										
>50 VERY DENSE 15-30 V. STIFF											
<u></u>			>30	HARD					 		
NOTES	:	1) STRATIFIC	ATION LINES F	REPRESENT APPROXIA	MATE BOUNDAR	Y BETWEEN SOIL TY	PES, TRANSITIONS	MAY BE GRADUA	AL.		
1		2) WATER LE	VEL READINGS	S HAVE BEEN MADE AT	TTIMES AND UN	IDER CONDITIONS S	TATED, FLUCTUATIO	ONS OF GROUND	WATER		
	1	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	SE PRESENT A	T THE TIME MEASUR	REMENTS WERE MA	DE		<u> </u>	
GZN	y									BORING NO.	GZA-137

				NEW YORK YORK, NY 10001	League	PROJECT		REPOR		EET_	1 of 1	
ENGIN	EERS A	ID SCIENTIS	TS		Ede	45 River Road sewater, New Jersey				NO DBY	41.0161318.00 DW	
BORING			 		1	BORING LOCA	TION					
FOREMA		Summit Drilling Dennis			•	GROUND SURFACE E			D/	TUM		
GZA ENG		Meredith Hayes	and Danielle S	alemo	•	DATE ST	-	10/16/06	•	END	10/16/06	_
				PLER CONSISTS OF IMER FALLING 30 IN			TIME	GRO! WATER	UNDWATER F		GS STABILIZATION 1	ГІМЕ
t .	UNLESS		OTED, CASING	DRIVEN USING A 300	lb							
CASING	SIZE:		OTHER 3 3/4"	HSA								
DEPTH	CASING			SAMPLE	BLOWS/6"	1		ESCRIPTION	ļ	R K	STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)				LASSIFICATION		`	DESCRIPTION	TESTING
	<u> </u>		24/15	0-2	16	Gray-brown m-c SAND,					FILL	0
		S1			37	(1" concrete in battom,	trace t	brick fragments)				0
					35							0
2.0					34	L						0
		s ₂	12/9	2-3	35	Black f-m SAND, some	Sift, tr	race f Gravel.				0
3.0					25]						0.1
-			12/5	3-5	26	Brown, m-c SAND, som	ne Silt,	trace Gravel.				
		1	1273	0-0	50/2					ŀ		
İ		S3			3072							1
ļ	<u> </u>	1			 	1						6.2
5.0 -						Brown, m⊷c SAND (sligi	ht she	en, coal tar odor)	changing to	İ		5.4
	ļ	1	24/9	5-7	11	Silty CLAY bottom 2".		on, ocar air caor,	winning to			0
	L	S4			12	j			l			0
			l		10							0
7.0		1			4							
-			24/19	7-9	3	Brown f-m SAND, little						0
1		1	24/19	7-9		slight sheen) changing	atter 1	/" to Brown SIL I	Y CLAY.			1
	-	S5			2	1						2.9
ł		-			11	1				- }		3.5
9.0	ļ				4						SILTY CLAY	6.0
1						EOB@ 9'.						1
1	1]	-									
l		1	-									
		1				1						
1	-	1				1				1		
•		4			 	1						
l	<u> </u>	1				1						
	<u> </u>	4		ļ		-						
		1			<u> </u>	1						
	L .					1			:			
]								
	GRANULA	R SOILS	CO	ESIVE SOILS	REMARKS:	 						-
1		DENSITY		VS/FT DENSITY								
		RY LOOSE	<2	VERY SOFT	1							
0-4			i									i
4-10		LOOSE	2-4	SOFT	1							
10-30		IUM DENSE	4-8	M. STIFF								
30-50 DENSE 8-15 STIFF					l							
>50. VERY DENSE 15-30 V. STIFF												
<u></u>			>30	HARD	i							
NOTES	:	1) STRATIFICA	ATION LINES R	EPRESENT APPROXIM	ATE BOUND	ARY BETWEEN SOIL TY	YPES,	TRANSITIONS I	MAY BE GRAD	UAL.		
1		2) WATER LE	VEL READINGS	HAVE BEEN MADE AT	TIMES AND	UNDER CONDITIONS S	TATE	D, FLUCTUATIO	NS OF GROU	NDWAT	TER	
)	MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	SE PRESENT	AT THE TIME MEASUR	REMEN	NTS WERE MAD	E			
CSZ/	y									T	BORING NO. GZA	\-139

GZA (ZA GEOENVIRONMENTAL OF NEW YORK O NINTH AVENUE, 18TH FLOOR, NEW YORK, NY 10001					PROJECT		REPOR	IT OF BORING I SHI	NO.	GZA-140 f of 1	
		D SCIENTIS				45 River Road Edgewater New Jen	nev .	}	FILE			
		F. M. 7		DRILLING RIG			BORING LOCATION	<u> L</u>			oration Location Plan	
BORING FOREMA		Summit Drilling John Murtha		TYPE OF DRILLING	HSA	1	ND SURFACE ELEV.			TUM	ARTICLE CONTRACT	
GZA ENG	•	M. Hayes				1	DATE START	10/17/06	DATE E	END	10/17/06	
<u> </u>								-4	- Commission in the Commission in the			
				LER CONSISTS OF MER FALLING 30 IN		DATE	TIME	GROUNDV WATER	VATER READIN CASING	IG\$	STABILIZATION TIME	I .
CASING:	UNLESS	THERWISE N	OTED, CASING	DRIVEN USING A 300 I	b							
	FALLING	24 IN.								-		
CASING DEPTH	SIZE: CASING			SAMPLE			SAMPLE DESCRI	IPTION	<u>' </u>	R	STRATUM	FIELD
	BLOWS	ŠPÓON NÓ	PEN/REC	DEPTH (FT)	BLOWS/6"		BURMISTER CLASS	IFICATION	·	ĸ	DESCRIPTION	TESTING
l						1" asphalt			ļ			
		S1										
l			24/12	1-3	4	Brown f-m SAND, so	me Silt		l			0
2.0					5	(Hard pitch in bottom	3")					0
					10	1						
		S2			5	1				Ì		
l	<u> </u>		24/24	3-5	3	Black f-c SAND, little	Silt (some brick)		1		FILL	0
4.0 _					50	(Geotextile fabric with	n pitch material from 2	2.5-3")	1			0
•					20	(Soft pitch from 3-4')						o
		\$3			17	1						٥
			24/16	5-7	6	Black f-m SAND, sor	ne Silt		1			58.3
6.0					2	(Soft pitch throughou	t)		j			
					1	4			1			
l		S4			11				Ì			
İ			24/10	7-9	3	Black f-c SAND, trac	e Silt			1		33.0
8.0					2	(2" Soft pitch in shoe)		1			0
	<u> </u>				2	(wet throughout)			ı			
l		S 5	·		3	1]	1		
}	<u> </u>		24/16	9-11	15	Hard pitch material]			0
10.0					8	4				ŀ		
1					3	4			1			
		S6			7	1				1		
]			24/8	11-13	3	Black f-m SAND (coa	ncrete)					5.0
12.0	ļ				1	(obvious staining and	l sheen)					
1	<u> </u>		<u></u>		t	(Less viscous pitch)						
		S7	<u> </u>		11	4						
1	<u> </u>	ļ	24/20	13-15	1	Brown SILTY CLAY					SILTY CLAY	0
14.0	 				1	4						٥
1	<u> </u>	ł	 		1 1	-						0
1	L	L	<u> </u>	I	1 1]1						0
1	GRANULA		1	HESIVE SOILS	REMARKS:							
	LOWS/FT			FT CONSISTENCY	1. EOB @ 15'.							
	0-4 VERY LOOSE <2 VERY SOFT											
ŀ	4-10 LOOSE 2-4 SOFT 10-30 MEDIUM DENSE 4-8 M. STIFF											
10-30		DENSE DENSE	4-8 8-15	M. ŞTIFF STIFF								
30-50 >50	>50 VERY DENSE 15-30 V. STIFF											
	>30 HARD											
NOTES	:	1) STRATIFIC		EPRESENT APPROXIM	ATE BOUNDARY	BETWEEN SOIL TYP	ES, TRANSITIONS M	AY BE GRADUAL				
		•		HAVE BEEN MADE AT								
	١	-		R FACTORS THAN THO								
CZV	y									-	BORING NO.	GZA-140

				NEW YORK YORK, NY 10001		PROJECT I. park Edgewate		REPOR	4.7	ET,	1011	,
PAIGNA	rné ss	D COLEME	TO		ļ	45 River Road Edgewater New Jer			CHKD	V . 3	41.0161318.00	
		D SCIENTIS			<u> </u>	,	 	<u> </u>	2 794			
BORING		Summit Drilling		DRILLING RIG		1	BORING LOCATION				ration Location Plan	
FOREMA		Denis Crayon		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV. DATE START		. DAT DATE E	-	10/17/06	
GZA ENC	š.	D. Salemo			-		DATESTART	10/1//00	. UATER	JAD.	10/17/06	
				PLER CONSISTS OF		DATE	TIME	GROUNDY WATER	VATER READIN	IGS	STABILIZATION TIM	E
			OTED, CASING	G DRIVEN USING A 300) lb					-4		
1	RFALLING	24 IN.						<u> </u>	<u> </u>	-		
CASING	SIZE: CASING		· /	SAMPLE		",	SAMPLE DESCRI	PTION	<u> </u>	R	STRATUM	
JE	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*]	BURMISTER CLASSI			ĸ	DESCRIPTION	FIELD TESTING
			10/8	0-2	33	Light brown f-m SAN	ID, little Silt, trace f G	ravel (concrete)				
					50/4	(Hard pitch bottom 2		• •				
		S1			307	i i						
ļ				ļ		(Soft pitch at 18")				- 1		
2.0 -						HSA to 2'.						
			24/10	2-4	33	Concrete and f Grav	el changing after 2" to	·				
		S2			53	Hard pitch (sheen an	d odor) changing afte	r 5.5" to				
	ŀ				18	Geotextile fabric with	pitch material				FILL	
4.0		Ì			22]						
-			24/11	4-6	50	Bleck f-c SAND som	ne Silt, trace f Gravel					
1		1			30	(Hard pitch in top 3")						
		S3				Triard pitch in up 3 /						
1		ł			17	1			1			
6.0	<u> </u>		 		7	4						
		1	24/17	6-8	3	Black-brown m-c SA	ND, little f Gravel		ľ			
		S4			11	(little Hard pitch in b	ottom 2")					
l					11					,		
8.0	Ī	1			3							
-			24/24	8-10	7	Black m-c SAND, lift	ie Silt, trace SILTY CI	LAY				
					4	1	oric with pitch at top)		1			
		S5	 			1			1	1		
1		1	-		2	(Trace Hard pitch at	bottom)			ı		
10.0		ļ			4	-			1	- 1		
		4	13/3	10-12	17	SILTY CLAY changing	ng after 1" to Hard pito	th and wood	İ	ı	SILTY CLAY	
		S6			7	4				ı	ı	
ł					50/1							
12.0	<u>.</u>					EOB @ 11'.				l		
-												
		1								Ì		
1	-	S7		1		1			ł	- 1		
	-	1			† · · · · · · ·	1					į	
14.0	٠			<u> </u>	 	<u> </u>	· · · · · · · · · · · · · · · · · · ·					L
ı	GRANULA			HESIVE SOILS	REMARKS:							
	LOWS/FT			FT CONSISTENCY	-							
0-4	VE	RY LOOSE	~	VERY SOFT	1							
4-10	1	LOOSE	2-4	SOFT	1							
10-30	MED	IUM DENSE	4-8	M. STIFF	4. Refusal at 11	1'. Relocated boring 6	SE.					
30-50		DENSE	8-15	STIFF								
>50	VE	RY DENSE	15-30	V. STIFF								
<u> </u>			>30	HARD								
NOTES	:	1) STRATIFIC	ATION LINES F	REPRESENT APPROXIA	AATE BOUNDAR	Y BETWEEN SOIL TY	PES, TRANSITIONS	MAY BE GRADU	AL.			
		2) WATER LE	VEL READINGS	S HAVE BEEN MADE AT	T TIMES AND UN	DER CONDITIONS S	TATED, FLUCTUATIO	ONS OF GROUND	WATER			
-		MAY OCCUR	DUE TO OTHE	R FACTORS THAN THO	SE PRESENT A	T THE TIME MEASUR	REMENTS WERE MAI	DE				
(CZ\)									.	BORING NO.	GZA-141

GZA (440 NIN	EOEN TH AVE	VIRONME IUE, 18TH FL	NTAL OF OOR, NEW	NEW YORK YORK, NY 10001		PROJECT I. park Edgewate		REPOR	T OF BORING NO. SHEET	EET 1 of 1 No. 41.0161318.00		
ENGINE	ERS AN	D SCIENTIST	s		***************	45 River Road Edgewater New Jer	sey		FILE NO. CHKD BY		3.00	
BORING	co.	Summit Drilling		DRILLING RIG			BORING LOCATION		See Expl	oration Location Plan		
FOREMA	N .	Denis Crayon		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV.		DATUM		_	
GZA ENG	i	D. Salerno					DATE START	10/19/06	DATE END	10/19/06		
SAMPLE	2. UNIES	OTHERWISE	NOTED, SAMP	PLER CONSISTS OF			· · · · · · · · · · · · · · · · · · ·	GROUNDV	VATER READINGS			
				IMER FALLING 30 IN		DATE	TIME	WATER	CASING	STABILIZATION	TIME	
HAMMER	FALLING		OTED, CASING	DRIVEN USING A 300	lb						,	
CASING	SIZE: CASING			SAMPLE			SAMPLE DESCRI	PTION	R	STRATUM	FIELD	
DEF 181	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6*	ļ	BURMISTER CLASSI		к	DESCRIPTION	TESTING	
			19/11	0-2	16	Gray-brown f-m SAN	ID, little Silt				0	
		S1			30	(Trace brick and con	crete in bottom 6")				0	
		•			30				}			
2.0					50/1]						
l ~				2-3		HSA to 3'. Refusal o	on concrete.			1		
ŀ						1						
		S2				EOB @ 3'.			1			
4.0						1						
_						1					1	
1		ł										
i		53			 				, l			
	-	ŀ			 	1						
6.0	<u> </u>					-						
	<u> </u>	1				-						
l		S4			 	-{						
ļ		1				4						
8.0						4						
		1	, , , , , , , , , , , , , , , , , , ,		<u> </u>	4					ŀ	
		S5			<u> </u>	1						
1]				1					1	
10.0						_					-	
•]				ł						
1	 	S6										
12.0		1]				}		
I	\vdash	† ···										
1	 	1				1						
	—	S7			†	1			l			
	 	1		1		1				}		
14.0	1			LESDE SOUR	REMARKS:	<u> </u>			L.	i.		
1	GRANULA			HESIVE SOILS	l	oncrete at 3'. Boring	location moved 4º Enc	t for hatter recove	n.			
	LOWS/FT		<2	VERY SOFT	Leiden nu c	winders at 3, builing	COLUMN TO THE EAST	10004	.,.			
0-4		RY LOOSE LOOSE	2-4	SOFT								
4-10		LOOSE IUM DENSE	4-8	M. STIFF								
10-30 30-50		DENSE	8-15	STIFF								
>50		RY DENSE	15-30	V. STIFF								
-50	VE.	U'I DEMOE	>30	HARD								
NOTES		1) STRATIES		REPRESENT APPROXIM	MATE BOUNDAR	Y BETWEEN SOIL TO	PES, TRANSITIONS	MAY BE GRADU	AL.			
NOTES	•	-		S HAVE BEEN MADE A								
		•		R FACTORS THAN THO								
CZ)									BORING NO.	GZA-141B	

				NEW YORK YORK NY 10001		PROJECT I. park Edgewate		REPOR	FOF BORING		GZA-141C 1 of 2	
AND MILY	IHAVE	MOÈ!: 10 M I	LOOK, NEW	TORRESTATIONS		45 River Road			FILE			
ENGIN	ERS AN	ID SCIENTIS	TS		2 17 1	Edgewater New Je	eey .	:	CHKD	BY		
BORING	CO.	Summit Drilling		DRILLING RIG	- Aurent		BORING LOCATION		See E	xpic	ration Location Plan	
FOREMA	N	Denis Crayon		TYPE OF DRILLING	HSA	GROU	ND SURFACE ELEV.		DATI	UM		
GZA ENG	3 .	D. Şalerno			-		DATE START	10/19/06	DATE	ND.	10/19/06	
<u> </u>						ļ			* * 2.39	.,		
				PLER CONSISTS OF IMER FALLING 30 IN		DATE	TIME	GROUNDW WATER	ATER READING	GS	STABILIZATION TIME	E
L							I	T		_		
1	ONLESS R FALLING		UTED, CASING	DRIVEN USING A 300	IID					-		
CASING		24 114									·	
	CASING			SAMPLE			SAMPLE DESCRI	PTION		R	STRATUM	FIELD
	BLOWS	SPOON NO	PEN/REC	DEPTH (FT)	BLOWS/6"	↓	BURMISTER CLASSI	FICATION		ĸ	DESCRIPTION	TESTING
						HSA to 2'.						
									-			
									1	ļ		
2.0						1			1			
-			0445	2.4			III. III. 1814 4		1			
Ì I			24/15	2-4	. 55	1	ID, little Silt (concrete	and onck)	1			0
		S1			18	changing after 3" to	Hard PA (odor)		l			٥
					13	changing after 4" to	Brown-black f-m SANI	D, trace f Gravel		ı		0
4.0					12	4				ı		
			24/14	4-6	48	Black f-c SAND, little	Silt, trace f Gravel (v	vood, concrete, bri	ck)	ı		٥
		S2			8	j				ŀ		0
] ~	·		5	1				١		0
6.0					3	1						"
••• -						1						
			24/12	6-8	1 1	Similar to above						0
1	ļ	S3			1	(concrete and brick i	n bottom 1")			١	FILL	0
l					2	4			ł	ŀ		
8.0					3	j						
			24/4	8-10	1_1	Similar to above				ı		۰
ŀ]			2	1					•	
		S4			4	1						
	 				1	1				ł		
10.0					15	1						
1	<u> </u>		24/11	10-12	10	Black f-m SAND, litt	le Silt		}	- 1		0
1		S 5			7	(Hard pitch in top)				-]		0
1	ļ	1			2	(sheen and odor in t	ottom)			- [
12.0					2]				ł	-	
1 -			24/8	12-14	3	Black f-c SAND, little	s Silt, trace f Gravel (v	vood, concrete, bri	ck)	١		
1]			2	1	th pitch material, gray		1			
1		\$6			7	1	p (ranonial, gray			١		
Ĺ	 -	İ			†	bottom 3")						
14.0	L	L		<u> </u>	8							
1	GRANULA			ESIVE SOILS	REMARKS:							
B)	LOWS/FT	DENSITY		FT CONSISTENCY	1							!
0-4	VEF	RY LOOSE	<2 ′	VERY SOFT								
4-10	1	LOOSE	2-4	SOFT								
10-30	MED	IUM DENSE	4-8	M. STIFF								
30-50	1	DENSE	8-15	STIFF								
>50	VEF	Y DENSE	15-30	V. STIFF								
<u></u>			>30	HARD								
NOTES:		1) STRATIFICA		EPRESENT APPROXIN	ATE BOUNDARY	Y BETWEEN SOIL TY	PES, TRANSITIONS	MAY BE GRADUA	L			
1		•		HAVE BEEN MADE AT								
		•		R FACTORS THAN THO								
CZN)	ari Journ	· · · · · · · · · · · · · ·							ſ	BORING NO.	GZA-141C

GZA G	EOENVI	RONMENT	AL OF N	EW YORK		PROJECT		<u> </u>	REPORT OF BOR	NG NO.	GZA-141C	
				ORK, NY 10001		i, park Edgewater				SHEET		
						45 River Road				ILE NO.	41.0161318.00	
ENGINE	ERS AND	SCIENTISTS			E	dgewater New Jers	sey		·CI	HKD BY		<u> </u>
BORING C	0.	Summit Drilling		DRILLING RIG		BOF	ING LOCATION		See Explorati	on Locat	ion Plan	
FOREMAN		Denis Crayon		TYPE OF DRILLING	HSA	GROUND S	URFACE ELEV.			DATUM		
GZA ENG.		D. Salerno					DATE START	10/19/06	DA	TE END	10/19/06	
SAMPLER:	UNLESS O	THERWISE NOT	TED, SAMPLER	CONSISTS OF	<u> </u>			GROUNE	WATER READINGS			* :
				R FALLING 30 IN		DATE	TIME	WATER	CASING		STABILIZATI	ON TIME
			D, CASING DR	IVEN USING A 300 Ib			······································	ļ				
HAMMER I CASING S	FALLING 24	IN.							· · · · · · · · · · · · · · · · · · ·			
1				SAMPLE			SAMPLE	DESCRIPTION	<u> </u>	R	STRATUM	
DEPTH	CASING	SECON NO.	PEN/REC		BLOWS/6*			CLASSIFICATION	u	K.	DESCRIPTION	FIELD
	BLOWS	SPOON NO		DEPTH (FT)						_ r·		TESTING
		 	24/10	14-16	4	Gray SILTY CLAY	r, trace f Gravel	(organic material)			SILTY CLAY	
		S7			2							
		1 1			2	ł						
16.0					2							
		1 1				EOB @ 16'.						
		4				1						
		- 1				1						
_											l	
		1										
]]				}						
						ŀ						
-												
		1										
		†										
		1				1						
-		-								İ		
		1				1						
		1 !				1				ŀ		
		-				{						
-		 		<u> </u>		<u> </u>				1		
		4			···	-						
	_	4				4				ŀ		
		.			<u> </u>	4						
						1				1		
1		_[]			<u> </u>							
]				1						
]						
]								<u> </u>		
	GRANULAR	solits	сон	ESIVE SOILS	REMARKS:							
t	LOWS/FT D		BLOWS/F	T CONSISTENCY]							
0-4		Y LOOSE	<2	VERY SOFT								
4-10		OOSE	2-4	SOFT	1							
10-30		JM DENSE	4-8	M. STIFF	1							
30-50		ENSE	8-15	STIFF								
>50		Y DENSE	15-30	V. STIFF								
			>30	HARD								
NOTES:		1) STRATIFIC		EPRESENT APPROXI	MATE BOUNDA	RY BETWEEN SO	DIL TYPES, TRAI	NSITIONS MAY B	E GRADUAL.			
l		2) WATER LET	VEL READINGS	HAVE BEEN MADE A	T TIMES AND L	INDER CONDITIO	NS STATED, FL	UCTUATIONS OF	GROUNDWATER			

(GZN)

MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

BORING NO. GZA-1410

SZA GE	DENVIRO	NMENTAL 18TH FLOOR	OF NEW	YORK	PROJECT			REPORT O	OF BORING NO. SHEET		-
HU NIN I H	AVENUE,	IOTH FLOOR	, NEW YORK	, 141 10001	i. Park Edgew 45 River R					41.0161318.00	1
ENGINEEF	RS AND SCI	ENTISTS			Edgewater,				CHKD BY		
ORING CO.	· · · · · · · · · · · ·	Summit			BORING LO	CATION_			· · · · · · · · · · · · · · · · · · ·		
OREMAN		Ronnie		-	GROUND SURFACE	ELEV.		DAT	UM		
ZA ENGINE	ER	A. Hough		-	DATE	START 6/6/0	7	DATE E	ND 6/6/07		
				•				-			_
	Seaprobe™ - 2		ch long, clear ac	etate liner, insta	lled with a hydraulic hammer.				-		_
DEPTH	0411015	SAMPLE	DEDTH (ET)		SAMPLE DESCRIPTION JURNISTER CLASSIFICATION		STRATUM. DESCRIPTION	T .	UIPMENT STALLED	FIELD TESTING	R
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	5	OKNISTER CLASSIFICATION		DESCRIPTION	1100	STALLED	1EOIING	l ``
		4/1	16-20	S5: Gray, CLA	, some organics (roots) (sulfur odor)				<u></u>	<u> </u>	1
		7.	1	1				1		ŀ	
	1			1				ŀ		[
			 	İ				1			
18	5							1			
	ł		<u> </u>	ł						1	l
	ł		<u> </u>	ł		1		1			
			<u> </u>							24.2	
20	ļ	ļ	<u> </u>					1		98.2	
]	End of Boring 20'						
	<u> </u>										
	1				•			ļ		ł	ł
22				1				ĺ		İ	1
	6			1							ł
	Ì		 	1				ļ			
			-	†							
			-	1							
24			ļ-	4							
	}			1				1			
			<u> </u>]				1			l
· i				_				ĺ			
26	7			_							
] '									Ì	Ì
	1			1		ł					
				1							
	1		 	1		İ				<u> </u>	
28 —	 		 	1		- 1				1	
			-	1				İ			
			-	-		1		1			1
		<u> </u>	ļ	-		1					
30	8			1							
	1			1		1		1		1	
]		1				ļ	1
	1					ł		j			
32	ł			1				}		ļ	l
REMARKS:				-		•		•		-	
REMARNS.											
NOTES:	1) STRATIF	ICATION LINES I	REPRESENT AP	PROXIMATE BO	DUNDARY BETWEEN SOIL TYPES;	TRANSITIONS	MAY BE GRADUAL.				
	2) WATER I	EVEL READING	S HAVE BEEN N	AADE AT TIMES	AND UNDER CONDITIONS STATE	; FLUCTUAT	IONS OF GROUNDWA	TER TABLE			
(ZX)	MAY OCCU	R DUE TO OTHE	R FACTORS TH	IAN THOSE PRE	ESENT AT THE TIME MEASUREMEN	NTS WERE MA	ADE.	-			
 "								la la	BORING NO.	GZA-142	

GZA GEO	DENVIRO	NMENTAL 18TH FLOOR,	OF NEW	YORK	PROJECT			RT OF BORING NO		
440 NINTH	AVENUE,	ISTH FLOOR	, NEW YORK	, NY 10001	i. Park Edgewater	·			T 1 of 2	
	RS AND SCI				45 River Rd Edgewater, NJ			FILE NO). <u>41.0161318.00</u> Y	<u> </u>
							<u> </u>	-	·	
SORING CO.		Summit		-	BORING LOCATION					-
FOREMAN		Ronnie		-	GROUND SURFACE ELEV.			MUTAC		-
SZA ENGINE	ER	A. Hough		-	DATE START	6/6/07	DAI	E END 6/6/07		-
SAMPLER: G	Seoprobe TM - 2	" diameter, 48-in	ch long, clear ac	cetate liner, install	ed with a hydraulic hammer.					
DEPTH		SAMPLE			SAMPLE DESCRIPTION	STRA	TUM	EQUIPMENT	FIELD	R
(FT)	SAMPLE NO	PENVREC	DEPTH (FT)	Ві	URMISTER CLASSIFICATION	DESCRI	PTION	INSTALLED	TESTING	K
		4/3.8	0-4	Gravel, little Silt	ack, fine to medium SAND, some fine , trace Organics (pieces of wood). ay, fine to medium SAND and fine GRAVEL.				0	
2	1			1					0	1
			<u> </u>	-					.0	
			<u> </u>	1						
4		4/4	4-8	fine Gravel, trac	ack, fine to medium SAND, little Silt, little se yellow Organics (pieces of wood). Middle				0	
	1				Bottom 2.3': 1.1' Brown, (changing to 0.2'- l'-yellow) SAND, some fine Gravel.				0	
6	2			1			Z		٥	
				1		=	_		0	2
g			1	-					0	
		4/2.9	8-12	Gravel (potentia SAND, some CI	ack, fine to medium SAND, some fine al slag). Middle 1.9': Brown to black, fine lay, some fine Gravel. Bottom 0.3': Black,					
			1	CLAY, some fin	e Gravel.				0	
10	3								0	
				}					0	
12	┼─	4/1.7	12-16		ack, fine to medium SAND and fine r odor). Bottom 0.3': Gray, CLAY, some fine					
				Gravel.	outh, bellow to early, Carry,					
14				1						
				}			:		0	
				<u> </u>						
REMARKS:	1) Comple 4	ollected from 0-2'	for TA1 metals	anakele		·				
PLENDARS.				is and SPLP As ar	nalysis					
NOTES:	1) STRATIF	ICATION LINES	REPRESENT AF	PROXIMATE BO	UNDARY BETWEEN SOIL TYPES; TRANS	ITIONS MAY BE	GRADUAL.	:		
	2) WATER I	LEVEL READING	S HAVE BEEN I	MADE AT TIMES	AND UNDER CONDITIONS STATED; FLUC	TUATIONS OF G	ROUNDWATER TAB	LE		
(ZN)	MAY OCCU	R DUE TO OTHE	R FACTORS TH	HAN THOSE PRE	SENT AT THE TIME MEASUREMENTS WE	RE MADE.		BORING NO.	074.442	
								BORING NO.	GZA-142	

40 MINITH		18TH FLOOR,	OF NEW YORK		PROJECT i. Park Edgewater			RT OF BORING NO. SHEET		;
ào mhána	AVENUE,	101111 20014,	, MEN TOTAL	,	45 River Rd				41.0161318.00	0
NGINEER	RS AND SC	ENTISTS			Edgewater, NJ			CHKD BY		
ORING CO.		Summit			BORING LOCATION					
REMAN		Joe		-	GROUND SURFACE ELEV.			DATUM		
ZA ENGINE	ER	A. Hough		_	DATE START 6	/5/07	DAT	TE END 6/5/07		
										_
	Seoprobe™ - 2		ch long, clear ac	etate liner, installe	ed with a hydraulic hammer.			7.7.2.2.2.	T ====	
DEPTH (FT)	SAMPLE	SAMPLE PEN/REC	DEPTH (FT)		SAMPLE DESCRIPTION JEMISTER CLASSIFICATION	STRATU		EQUIPMENT	FIELD TESTING	
V 17	NO	Limbo	J.,,		TO TEN OF OFFICE AND A TON	DEGOM! 1		MOTALLED	1231310	l '
		4/3	0-4	S1: Brown to da Gravel, trace Sil	rk brown, fine to medium SAND, some fine				0	Т
		***			•					l
				1					١.	L
_									0	l
2	1		<u> </u>				1			L
				}					٥	L
			ļ	-	i i		1			l
									•	l
4		<u> </u>								l
		4/1.8	4-8		rk brown, Silty CLAY, trace fine Gravel. ck, fine Gravel (potential slag).					l
	Į .								İ	ı
	1			1						L
_				1	İ					ŀ
6	l 2		 		<i>'</i>				1	L
			<u> </u>		•				0	ı
			 		1					ı
	ļ	ļ	<u> </u>	Ì	!				0	l
8	ļ		<u> </u>	CO. Too 4 St. Die	anh fan CDAVEL (matemáta) alank Atlatiu	Y				l
	1	4/3	8-12	1.3'. Black, Clay	ack, fine GRAVEL (potential slag). Middle ey SILT, trace fine Gravel. Bottom 0.4':				0	
		L	<u> </u>	Hard pitch. Tip:	Gray, Silty CLAY.		l l			
			l						0	ı
10	3									l
	1								3.1	
	İ			1					"	l
	İ		 	1					l	ŀ
			 	1	1				2.1	l
¹² —		 	 	S4: Black, fine G	GRAVEL (potential stag).				°	l
	1	4/1	12-16	1			ļ		•	l
	ł		ļ	1	į				0	ŀ
	1		<u> </u>		į.					ı
14] .		ļ	1	ĺ		1		1	
]	ļ					
	1								Ì	
]						
46				1						
16	4) 0	No stort from 2 5 1	T for TA1 matel	and SPLP As an	aheie				<u> </u>	
EMARKS:										
	2) Sample C	Jiectea Irom 7.5-	J.J TOT I AL MEU	als and SPLP As a	en rary ora					

OTES:					JNDARY BETWEEN SOIL TYPES; TRANSITI					
	2) WATER L				AND UNDER CONDITIONS STATED; FLUCTU		UNDWATER TAB	LE		
					BENT AT THE TIME MEASUREMENTS WERE					

SZA GEO	DENVIRO	NMENTAL	OF NEW	YORK	PROJECT			REPORT OF B			
40 NINTH	AVENUE,	ISTH FLOOR,	NEW YORK	NY 10001	i. Park Edgeweter 45 River Rd		•		SHEET	41.0161318.00	
NGINEER	S AND SCI	ENTISTS			Edgewater, NJ				CHKD BY		
ORING CO.		Summit			BORING LOCATION		L	· · · · · · · · · · · · · · · · · · ·			
				-	GROUND SURFACE ELEV.		-	DATUM			-
OREMAN		Joe		•	DATE START			DATE END	6/5/07		-
ZA ENGINEI	ER	A. Hough		•	DATESTARI	0/3/01		DATEEND	43707		
AMPLER: G	eoprobe TM - 2	" diameter, 48-in	ch long, clear ac	etate liner, installe	ed with a hydraulic hammer.						
DEPTH		SAMPLE			SAMPLE DESCRIPTION	STRA	TUM	EQUIP	MENT	FIELD	R
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	Bt	IRMISTER CLASSIFICATION	DESCRI	PTION	INSTAI	LED	TESTING	K
	NO	4/4	16-20		k, fine GRAVEL (possible slag). Bottom			 		0	┢
		,	10-20	Organics (pieces	, Silty CLAY, trace fine Gravel, trace of wood).					Ů	
				1				1			l
				-						2.2	
18	5		<u> </u>	}							3
			ļ	l						0	
				1				1			1
	}]						0	1
20	1					}					ŀ
					End of Boring 20']				1	
				1							
			 	1							
				-		·		ŀ			l
22	6		ļ	+							1
	1	ļ		4							l
						1		1			
		<u> </u>		<u>]</u>		ŀ]	
24										Ì	
						,		i			
				1							1
		———	†	†		Ì					1
	1		 	-{							1
26	7		 	-				1		İ	1
	1		ļ	4				l			1
l	1		<u> </u>	4				1]	1
								l			
28]		İ				,	
				1				1			
				1		ŀ]			
	ļ			1				l			
			-	1]		ļ	
30	8			1		ŀ					
	1		·	4				1			
			ļ	4				3			
				<u> </u>		•					
32]			
REMARKS:	3) Sample o	ollected from 17.5	-18' for TAL me	tals and SPLP As	analysis						
				IDDAY!!!ATE DO:	INDADV BETIMEEN OON TYPES TRANS	TIONS MAY 27	CBADINA:				
NOTES:					JNDARY BETWEEN SOIL TYPES; TRANSI						
					AND UNDER CONDITIONS STATED; FLUC		KOUNDWATI	K IABLE			
GZI)	MAY OCCU	R DUE TO OTHE	R FACTORS TH	IAN THOSE PRES	SENT AT THE TIME MEASUREMENTS WE	RE MADE.					

) HTMIN	AVENUE,	NMENTAL 18TH FLOOR,	OF NEW YORK	, NY 10001 i. Park Edgewater 45 River Rd			1 of 2 41.0161318.0	
GINEER	S AND SC	ENTISTS		Edgawater, NJ	<u></u>	СНКО ВҮ		
RING CO.		Summit		BORING LOCATION				-
REMAN		Joe		GROUND SURFACE ELEV.		DATUM		-
A ENGINEE	ER	A. Hough		DATE START 6/	/5/07	DATE END _6/5/07		-
MPLER: G	eoprobe TM - 2	" diameter, 48-in	ch long, clear ac	etate liner, installed with a hydraulic hammer.				
DEPTH		SAMPLE	· · · · · · · · · · · · · · · · · · ·	SAMPLE DESCRIPTION	STRATUM	EQUIPMENT	FIELD	T
(FT) [SAMPLE	PEN/REC	DEPTH (FT)	BURMISTER CLASSIFICATION	DESCRIPTION	INSTALLED	TESTING	
	NO	1	!	S1: Light brown, fine to medium SAND, trace Silt, some fine				H
		4/2.9	0-4	Gravel.		1	°	
			 	1			}	l
			ļ	4			0	l
	1		ļ	1				l
ļ]			0	l
- 1								l
- 1					<u>~</u>	İ	•	l
				1		1		l
		4/2.9	4-8	S2: Top 1.9': Brown, Silty CLAY, Bottom 1': Black, SAND, some fine Gravel.				١
	Ì	412.9	4-0	some tine Gravei.				١
			-	1				ı
	ļ		-	-			1	l
	2	<u> </u>		4			6.4	İ
]		ļ	4				١
	<u> </u>			<u> </u>			0	ı
				<u> </u>				ı
	1			1			0	1
		4/3.2	8-12	S3: Top 1.8': Black, fine GRAVEL, some fine to medium Sand (possible slag). (.8-1.2' into the core: sulfur odor).		·		ł
		4/3.2	1	Bottom 1': Hard pitch.				
				- 1				
	ļ			4				
	3		 	4			0	l
			ļ	4				
				1			0	
			1]		İ		l
]			0	
		4/3	12-16	S4: Top 1.9': Black, fine GRAVEL, some fine to medium Sand (possible slag). Bottom 1.1': Gray, Silty CLAY, some			1	1
				Organics (pieces of wood).		ļ		1
	1			1		İ		l
	İ		-	1			1 *	ı
	4		1	† l				1
	1		 	 			0.1	
			 	4				
		<u> </u>		4			٥	1
	<u> </u>		<u> </u>			_i	l	1
ARKS:	1) Sample c	collected from 0-2°	for TAL metals	analysis and SPLP As analysis				
	2) Sample o	collected from 2.5-	-3' for TAL metal	s analysis				
			·					_
ES:	1) STRATIF	ICATION LINES I	REPRESENT AF	PROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITI	ONS MAY BE GRADUAL.			
				WADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTU		TER TABLE		
7				AN THOSE PRESENT AT THE TIME MEASUREMENTS WERI				
ZN)	MAT UCCU	W DOE IO O I UE		THE THE REPORT OF THE PARTY OF		BORING NO.	GZA-144	_

- in a sea biography of	JEIVVIAO	NMENTAL	OF NEW	YORK PROJECT			REPORT OF BO	-		
40 NINTH	AVENUE, 1	8TH FLOOR,	NEW YORK	NY 10001 i. Park Edgewa 45 River Rd		-	** v	SHEET 2	2 of 2 41.0161318.00	
NOINEER:	S AND SCI	ENTISTS		Edgewater, N		-		CHKD BY	+1.0101010.0	_
AGHALL.	S AND U.	ENTIO			 	<u> </u>				=
ORING CO.		Summit		BORING LOC					 -	-
REMAN		Joe		GROUND SURFACE	ELEV.		DATUM			-
ZA ENGINEE	ER	A. Hough		DATES	START 6/5/07		DATE END	6/5/07		-
	- TM - o	- " AG las	- 1 elegens	Installed with a budgastic harmon						
	eoprobe ···· - ∠		ch long, clear ac	etate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION	I STEA	TUM	EQUIPM	EKIT	FIELD	F
DEPTH (FT)	SAMPLE	SAMPLE PEN/REC	DEPTH (FT)	BURMISTER CLASSIFICATION	DESCR		INSTAL		TESTING	;
· · /	NO									L
		4/1.2	16-20	S5: Black, fine GRAVEL, some fine to medium Sand (possible slag).				I		
				grossine stagy.						
		-	1	1	1			Į		
			 				1	ı		
' —	5			1	1		ľ	1		
		· · · · · · · · · · · · · · · · · · ·	 		1			I		
]			İ	İ		ı
				}					0	
]			· I	l	0	I
				End of Boring 20'				ŀ		ı
				1				l		ı
				1				I		1
					·			!		
·	6			-						l
]			1			
							ì	İ		
	1						1			ı
1	Ì				l					ı
		1		1	į			l		ı
				1						ı
	l		 	4				Ī		ı
			<u> </u>							1
š	,		<u></u>	1						1
				j	į			1		
					į			1		
				7	į			1		
	1			1				1		
	-		 	1				l		
			 	4	1					
	1		 	4						
				4	- 1			1		
·	8		<u> </u>							l
	1							ŀ		١
	1							Ī		ı
]			1						
	1		 	†						ı
2	<u>. </u>		<u> </u>	<u></u>				l		ㅗ

.

440 NINTH	AVENUE,	NMENTAL 18TH FLOOR	OF NEW YORK	YORK , NY 10001	PROJE i. Park Edg 45 River	ewater Rd			REPÓRT OF I	SHEET FILE NO.	1 of 1 41.0161318.00)
ENGINEER	RS AND SC	ENTISTS			Edgewate	r, NJ	ć	<u> </u>		CHKD BY		
BORING CO.		Summit		-	BORING L	OCATION					· · · · · · · · · · · · · · · · · · ·	-
FOREMAN		Joe		-	GROUND SURFA				. DATUM			•
GZA ENGINE	ER	A. Hough		-	DA	TE START 6/5/07			DATE END	6/5/07		
SAMPLER: G	Sennrobe TM - 2	" diameter, 48-in	ch long, clear ac	etate liner, instal	led with a hydraulic hammer.							
DEPTH		SAMPLE			SAMPLE DESCRIPTION		STRAT	UM	EQUIP	MENT	FIELD	R
(FT)	SAMPLE	PENVREC	DEPTH (FT)	В	URMISTER CLASSIFICATION		DESCRI	PTION	INSTA	ALLED	TESTING	к
	NO.			S1: Brown to d	ark brown, fine to medium SAND,	same fine					· .	├
		4/2.5	D-4	Gravel, trace Si	it.	:						
2				1		- 1			1			1
-	1			1		1						2
	İ			1		1						•
	ļ		†	1								1
	1	}	 	1			Z	7	1		0	1
¹ —					rown, Silty CLAY, some fine Sand		=	=	1		ľ	l
		4/2.1	4-8	Gravel. Bottom slight sheen).	n 1.2': Black, fine GRAVEL (possik	de slag,			:			
6	2										0	
8				1							0	
		4/2	8-12	S3: Dark brown sheen).	n to black, fine GRAVEL, (possibl	e slag,						
10												
	3			1								ŀ
				1		1					3.2	
	1			1		Ì					"-	
				1					1			
12		4/4	12-16		lack, fine GRAVEL (possible slag) m 1.2": Gray CLAY, trace fine Gra es of wood).							
l				1							*	
			+	1								
14 —	- 4		 	1							1.1	
			+	-								
	1	<u> </u>	 	-							°	
1	1	-	 	-{	End of Boring 16'	1						
16	<u> </u>		<u> </u>		· · · · · · · · · · · · · · · · · · ·				<u> </u>		0	
REMARKS:		collected from 0-2 collected from 2-2			alysis							
NOTES:					DUNDARY BETWEEN SOIL TYPE AND UNDER CONDITIONS STA				ER TABLE			
CZN	MAY OCCU	IR DUE TO OTH	ER FACTORS TH	HAN THOSE PRE	SENT AT THE TIME MEASURE	MENTS WERE MA	NDE.		با			
y						***			ВО	RING NO.	GZA-145	47

		NMENTAL 18TH FLOOR,			-	REPOR	T OF BORING NO SHEET		
O MIN I LI	AVENUE,	101111 20014	.14244 .0	45 River Rd				41.0161318.00)
IGINEER	RS AND SC	IENTISTS		Edgewater, NJ			CHKD BY	,	
RING CO.		Summit		BORING LOCATION					
REMAN		Joe		GROUND SURFACE ELEV.		C	ATUM		•
A ENGINE	FR	A. Hough		DATE START 6	5/5/07	DAT	E END 6/5/07		•
				-					
APLER: G	Geoprobe™ - 2	2" diameter, 48-in	ch long, clear ac	etate liner, installed with a hydraulic hammer.				·	
DEPTH		SAMPLE	T	SAMPLE DESCRIPTION	STRA		EQUIPMENT	FIELD	F
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	BURMISTER CLASSIFICATION	DESCRI	PTION	INSTALLED	TESTING	۱ ا
	NO		 	S1: Brown to dark brown, fine to medium SAND, some fine				٥	H
	•	4/2.8	0-4	Gravel, trace Silt, trace Organics (pieces of wood)				"	
	1	-	 	-				ŀ	
	,		<u> </u>					0	
	1 1		<u> </u>					ŀ	
	1		<u> </u>]				0	
	ŀ					l		İ	
]]				1	
	1		t	1		I			
	 	 		S2: Top 1.3': Brown, Silty CLAY, some fine Gravel. Bottom		1		1	
	1	4/2.3	4-8	1': Dark brown, SAND, some fine Gravel, trace Silt.				}	
	1		 	-					
	,		ļ	1		ļ			l
	2		<u> </u>			ŀ			
				·		ŀ		٥	
					7	<u> </u>			١,
						[
				†					l
	+		 	S3: Top 2.3': Dark brown to black, fine GRAVEL, trace fine					
	1	4/2.1	8-12	to medium Sand (possible slag) (0.9-1.3' into the core slight sheen). Bottom 0.8': Hard pitch.		1			
	1		1	, , , , , , , , , , , , , , , , , , ,					
	1			4		1		İ	
	3]		ļ			
	7					l		0	ļ
	1								
	1			1				4.9	
	1		1	†		ļ			l
-	+	+	†	S4: Top 1': Black, fine GRAVEL, some black, fine to		į			
		4/2.8	12-16	medium Sand (possible slag). Bottom 1.8': Gray, Silty CLAY, little Organics (pieces of wood).		Ī			
			1			1			
				4 1				0	
	4			_					
_	1]				0	
				7 l		I		6.3	
	1		1	End of Boring 16'				1	
							 	<u> </u>	
MARKS:				and SPLP As analysis					
	2) Sample c	collected from 6.4-	-6.9' for TAL met	al analysis					
									_
TES:	-			PROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSIT					
_	2) WATER	LEVEL READING	S HAVE BEEN N	MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCT	UATIONS OF G	ROUNDWATER TAB	LE		
(m	MAY OCCU	IR DUE TO OTHE	R FACTORS TH	IAN THOSE PRESENT AT THE TIME MEASUREMENTS WER	E MADE.			 	
ZI)							BORING NO.	GZA-146	

SZA GEC	ENVIRO	NMENTAL	OF NEW	YORK	PROJECT		R	EPORT OF BO	•		
40 NINTH	AVENUE, 1	18TH FLOOR,	NEW YORK,	, NY 10001	i. Park Edgewate 45 River Rd	or .	2 11 1	. 4	SHEET	1 of 1 41.0161318.00	
NGINEER	S AND SCI	ENTISTS			Edgewater, NJ	,	1		CHKD BY		_
					BORING LOCA			*	-		
ORING CO.		Summit						DATUM			. 1
OREMAN		Ronnie		•	GROUND SURFACE E			DATUM DATE END	6/6/07		. 1
SZA ENGINEE	≟R	A. Hough		<u> </u>	bare 0	TART 6/6/07		DATE CITE	0/0/01		.
AMPLER: G	eoprobe TM - 2	" diameter, 48-in	ch long, clear ac	etate liner, instal	lled with a hydraulic hammer.					-	
DEPTH		SAMPLE			SAMPLE DESCRIPTION	STRA		EQUIPA		FIELD	R
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	В	BURMISTER CLASSIFICATION	DESCRI	PTION	INSTAL	TED	TESTING	K
 †	NO	+	 		rown, fine to medium SAND, some fine						
	l .	4/3.6	0-4		t. Bottom 1.4': Dark brown, fine to med t, little fine Gravel.	lium	1			°	
1	ł		 		, mao mie ara					1 1	1
Ī	1			1		1	ŀ		1	0	
2	1			1			ŀ				1
	1			<u> </u>			1			0	
	l .			ļ						1	
	l .			1			1		ļ	٥	1
.	l		1	1		<u> </u>				'	2
* —		 	+		nd bottom 0.8': Brown, fine to medium S	AND,	_				
l	ł	4/4	4-8	some fine Grave Gravel.	el. Middle 0.4": Gray, Silty CLAY, little	i fine	1			"	1
ļ	1			-						į ,	ĺ
ļ	1		 	4		İ			!	0	ĺ
6	2	<u></u>	<u> </u>	1				į	İ	! '	
. !	1		1]				i	!	0	
	1			_		.			!	1 '	
	1			1			1			0	1
	1			1				I		'	
		+	8-12		elack, fine to medium SAND, some fine	l		l		!	1
!	1	4/2.4		Gravel.		1		ĺ		!	
	ĺ		+	1						!	
	l		 	+				İ		!	1
10	3		 	4						0	1
			 	4			1			ļ '	
	1		<u> </u>	_]		1	1			0	
	1		Τ]			ļ			·	
12	1			1						0	
	 	4/3.5	12-16		Park brown to black, fine GRAVEL, little		I				
İ	1	4/3.5		0.8': Brown CL	trace Organics (pieces of wood). Botto AY, some Organic (roots) (1' into the s		ļ				
İ	1		+	slight sheen)		ł	ļ			•	1
ĺ		 	+	4		ļ	ļ				
14	4	<u> </u>	+	4		ļ	ļ			°	
İ				4		į	1				1
ļ				_			ļ	l		0	
			<u>l</u>		· · · · · · · · · · · · · · · · · · ·		ļ	i		'	3
16	l	Γ <u></u>			End of Boring 16'			<u> </u>		0	$oldsymbol{ol}}}}}}}}}}}}}}}}}}}}$
REMARKS:	1) Sample c	collected from 0-2°	for TAL metals								-
		collected from 3.5-									
1		collected from 15.2									
ļ	o,,	Motor .		-							
į										-	
NOTES:	*\ STRATIF	POATION LINES	PEPRESENT A	PROXIMATE BO	OUNDARY BETWEEN SOIL TYPES; TR	RANSITIONS MAY BE	GRADUAL.				
NO LES.					AND UNDER CONDITIONS STATED;			R TABLE			
					ESENT AT THE TIME MEASUREMENT		,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
GZ\)	MAT OCCU	K DOE TO STA	IN PACIONS	Mit 111002	20181 71 11th 1 mm m			BOR	ING NO.	GZA-147	

NIN I H AVEN	UE AOTHEL	TAL OF NEW	YORK PROJECT , NY 10001 i. Park Edgewater		REPORT OF BORING NO. SHEET		
	UE, 18 IH FLC	OR, NEW YORK	, NY 10001 Fark Edgewater 45 River Rd		· -	41.0161318.0	
NEERS AND	SCIENTISTS	;	Edgewater, NJ		CHKD BY		
1G CO.	Summit		BORING LOCATION	N			
MAN	Ronnie		GROUND SURFACE ELEV	/	DATUM		_
NGINEER	A. Hough		DATE STAR	T 6/8/07	DATE END 6/6/07		
							_
PTH BODG	e' [™] - 2" diameter, SAMF		etate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION	STRATUM	EQUIPMENT	FIELD	F
FT) SAM			BURMISTER CLASSIFICATION	DESCRIPTION	INSTALLED	TESTING	,
N-	0		S1: Top 1': Fine GRAVEL. Bottom 2.5': Brown to dark				╀
	4/3.5	5 0-4	brown, fine to medium SAND, little Silt, little fine Gravel.			0	
1	<u> </u>		[
			4	1		0	
┙.	1						
	<u> </u>		1			0	١
]				
]			0	
			<u> </u>				
	4/2.	7 4-8	S2: Brown to dark brown, fine to medium SAND, some fine Gravel, little Silt (Bottom 0.3': sulfur odor).	`			
						0	
			1		[[
	2		1			0	
			1				
1			1			0	
			1			-	
_			S3: Dark brown to black, fine to medium SAND and fine				١
	4/3.	2 8-12	GRAVEL (possible slag) (sheen bottom 1').				
			†	ł		0	
	<u> </u>		†			J	
\dashv	3		┪			.,	
	<u> </u>		1	1		3.4	
	 		1				
	-		4			4.3	
			S4: Dark brown to black, fine to medium SAND and fine			0	
	4/2	.2 12-16	GRAVEL (possible slag, sulfur odor) (sheen bottom 0.6').				
			-		İ		
			-				1
	4		4				
	<u> </u>		4			0	
1			4				
ļ			_	}		17.1	I
				<u> </u>		0	Ţ

SZA GEOE 140 NINTH AV	ENUE, 1	8TH FLOOR,	OF NEW YORK	YORK NY 10001	PROJ i. Park Es 45 Riv	gewater er Rd		REPORT		2 of 2 . 41.0161318.0	0
NGINEERS A	ND SCI	ENTISTS		<u> </u>	Edgewa			· .	CHKD B)		
ORING CO.		Summit		•	BORING	LOCATION					-
OREMAN		Ronnie		•	GROUND SURI		 	-			-
ZA ENGINEER		A. Hough		•	D	ATE START 6/6/07		_ DATE	END 6/6/07		
AMPLER: Geop	robe TM - 2'	diameter, 48-in	ch long, dlear ac	etate liner, instal	led with a hydraulic hammer.						
DEPTH		SAMPLE			SAMPLE DESCRIPTION		STRATUM	E	DUIPMENT	FIELD	F
(FT) \$	SAMPLE	PEN/REC	DEPTH (FT)	В	URMISTER CLASSIFICATION	•	DESCRIPTION	T P	ISTALLED	TESTING	*
	NO	4/2.3	16-20	and fine GRAV	ark brown to black, fine to mediu. EL (possible stag). Bottom 0.8'; pots) (sheen approximately 1' fro	Sray CLAY					
18	5		<u> </u>	ł							
			 	{						6.6	
			 	1				1		81.5	
j			 	1						26.7	l
20		 	 		End of Boring 20'	——		-		3.0	1
		 	<u> </u>	ł	•						
			<u> </u>	ł						1	
ļ			 	ļ						1	l
22	6			1							1
		<u> </u>	<u> </u>	ł							ı
ļ				1				-			l
		ļ	 	_						1	
24		-	ļ	-							
			-	1							
1			ļ	1							
			 	-							1
26	7		 	-							Ì
ŀ			ļ	4							
			ļ	4		·					
}			ļ	4							
28				4							
				_						1	
										1	
								1			
30	8			1						1	
								Ì			
				1							
				_						ļ	
32				<u> </u>						<u> </u>	L
REMARKS:											
					OUNDARY BETWEEN SOIL TYP			ER TABLE	· · · · · · · · · · · · · · · · · · ·		
· ·					SENT AT THE TIME MEASURE						
GZN) "									BORING NO.	GZA-148	

I ZA GEC 40 NINTH	JENVIRO AVENUE,	NMENTAL 18TH FLOOR	L OF NEW Y R, NEW YORK,	YORK , NY 10001	PROJECT i. Park Edgewater			IEET 1 of 1	<u></u>
GINEEF	RS AND SCI	ENTISTS			45 River Rd Edgewater, NJ		CHKD	NO. 41.0161318.00 D BY	9
RING CO.		Summit		<u></u>	BORING LOCATION				=
REMAN		Ronnie		•	GROUND SURFACE ELEV.		DATUM		-
ZA ENGINEE	FR	A. Hough		•	DATE START 6/	46/07	DATE END 6/6/07	77 71.	-
				* " * bada					÷
MPLER: G	eoprobe''' - ∠	2" diameter, 48-in	ch long, clear au-	etate liner, ms.	alled with a hydraulic hammer. SAMPLE DESCRIPTION	STRATUM	EQUIPMENT	FIELD	Т
(FT)	SAMPLE		DEPTH (FT)	В	BURMISTER CLASSIFICATION	DESCRIPTION	INSTALLED	TESTING	
	NO	+		S1: Brown, fine	e to medium SAND and fine GRAVEL.	•			+
,	[4/3.1	0-4	4					
,	1		+	1				_	
,	•		+	1				0	1
	1	——	+	1				,	1
,	1		+	1				0	1
,	1		+	4				1	
,	1		+	1				0	
	 	+	+		ink brown, fine to medium SAND, some fine			Ì	
,	1	4/3.8	4-8	SAND, trace Or	e 1.8': Black Gravel, some fine to medium Organics (pieces of wood) (possible slag,				1
,	1	 	+	sulfur ador).				0	
,	1			4		_		_	
	2		+	1		_		0	
,	1		+	1			1		
,		 	+	1				"	
1	1	 	+	4					
· —	 	+	1		AVEL, some fine to medium, Sand (possible			"	
,	1	4/2.3	8-12	slag). Bottom 0.	.4': Soft pitch.				
1		-	+	1					
			+	†					
0	3		1	†				0	
			+	1					
	İ		+	1					
12			+	1					
'- <u> </u>	†	4/2.7	12-16		Black GRAVEL, some fine to medium Sand). Bottom 0.5': Gray CLAY, some fine Gravel.				
			 	(possium	Bottom d.g. Gray Ochri, Come				
			1	1					
14				1				0	
	↑			1					
			†	1				٥	
				1					
16				1	End of Boring 16'			0	_
MARKS:	1) Sample c	collected from 0-2	2' for TAL metals a	analysis.		AUTOMOTION			•
B-1			4-5.9' for TAL meta		s analysis				
			5.5-16' for TAL met						
OTES:	1) STRATIF	FICATION LINES	REPRESENT AF	PPROXIMATE BO	OUNDARY BETWEEN SOIL TYPES; TRANSITIO	IONS MAY BE GRADUA			_
• -					S AND UNDER CONDITIONS STATED; FLUCTU				
GZN)					ESENT AT THE TIME MEASUREMENTS WERE		-		_
G 17							BORING NO	O. GZA-149	

NINTH A	WENUE, 1	8TH FLOOR,	NEW YORK,	NY 10001 i. Park Edgewater			1 of 2	_
MEERS	AND SCI	NTISTS		45 River Rd Edgewater, NJ		FILE NO. CHKD BY	41.0161318.00)
				BORING LOCATION	<u> </u>			7.
NG CO.		Summit		GROUND SURFACE ELEV.	,	DATUM		-
EMAN	_	Ronnie		DATE START 6/6	2/07	DATE END 6/6/07		-
ENGINEE		A. Hough		-	301	DATE END GOOD		_
PLER: Ge	oprobe TM - 2'	diameter, 48-ind	ch long, clear ac	etate liner, installed with a hydraulic hammer.		, , , , , , , , , , , , , , , , , , , 		_
ЕРТН		SAMPLE		SAMPLE DESCRIPTION	STRATUM	EQUIPMENT	FIELD	I
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	BURMISTER CLASSIFICATION	DESCRIPTION	INSTALLED	TESTING	
+	NO		 	S1: Top 0.8': Fine GRAVEL, little fine to medium, gray				t
		4/2.9	0-4	Sand. Middle 1.5': Brown, fine to medium SAND, little Silt, little fine Gravel. Bottom 0.6': Gray, Silty CLAY.			°	١
								İ
1							0	
	1				*****			
1		<u> </u>	<u> </u>			1	٥	l
l						İ		l
1							1	l
							1	l
		4/2.8	4-8	S2: Top 0.8': Gray, Silty CLAY, little fine Gravel. Middle 2': Black GRAVEL, some fine to medium Sand		I		I
		772.5	7,	(possible slag, sulfur odor). 1.3-1.5' from bottom: Hard		•		l
j		<u> </u>	<u> </u>	pitch.				l
				1			°	١
\rightarrow	2			- 1				١
ļ			 	-			٥	l
				1			i	
							0	۱
				1			ŀ	١
		4/2.3	8-12	S3: Black, fine GRAVEL, some fine to medium, black Sand (possible slag, sulfur odor).				١
]				ı
				1				ł
		-		1			į	1
	3		 	-				1
		<u></u>	 				0	Į
			ļ	- 			11.1	ı
				4 1			7	ı
				<u> </u>			5.3	١
		0/0	12-16	S4: No Recovery			1	١
								1
] [1
				1				1
	1 4			1				1
				† 1			l	
			+					
		<u> </u>	 	-				
<u> </u>	l	<u> </u>					1	1
MARKS:	1) Sample o	ollected from 0-2	for TAL metals	analysis				
	2) Sample o	ollected from 2-2	.5' for TAL metal	is and As SPLP analysis				
								_
TES:	1) STRATIF	ICATION LINES	REPRESENT AI	PROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITION	ONS MAY BE GRADUAL.			
				MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTU		TER TABLE		

40 NINTH	AVENUE,	NMENTAL 18TH FLOOR	OF NEW YORK	YORK , NY 10001	PROJECT i. Park Edgewater 45 River Rd		REF	FILE NO	2 of 2 41.0161318.0	0
NGINEER	RS AND SC	ENTISTS	<u> </u>		Edgewater, NJ	 	L	CHKD B1	<u> </u>	
ORING CO.		Summit			BORING LOCATION	N	· · · · · · · · · · · · · · · · · · ·			-
OREMAN		Ronnie		•	GROUND SURFACE ELEV	/		DATUM		-
ZA ENGINE	ER	A. Hough			DATE STAR	T 6/6/07	D	ATE END 6/6/07		<u>-</u>
AMPLER: 0	Geoprobe™ - 2	" diameter, 48-in	ch long, clear ac	etate liner, installed	with a hydraulic hammer.					
DEPTH		SAMPLE			SAMPLE DESCRIPTION	STRA	TUM	EQUIPMENT	FIELD	F
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	BUR	MISTER CLASSIFICATION	DESCR	PTION	INSTALLED	TESTING	1
	NO				., some fine to medium Sand (possible	 			<u> </u>	╁╴
		4/1.2	16-20	slag).		}				
				ł						
				-						
18	5	<u> </u>		-		1				
		1		1						
			_	1						
	1	-	 	}					0	
20	ļ <u>.</u>	1	<u> </u>		End of Boring 20'	4	ļ		0	
			<u> </u>	-	▼ ····			•		
			<u> </u>	-			j			l
	1		<u> </u>						1	l
22	6		<u> </u>	1					1	l
									1	ŀ
			<u> </u>	1					1	l
	1		<u> </u>	1						
24	<u> </u>									
	1			<u> </u>						١
			<u> </u>							
26	7									l
]			j			ļ			ı
]						
28	<u></u>]						
]						
30										
	8]						1
			Ī	1		1				
32							ŀ		ì	
MARKS:	-J	<u> </u>					1		•	_
OTES:					DARY BETWEEN SOIL TYPES; TRANS			ABLE		
GZN)	MAY OCCU	R DUE TO OTHE	R FACTORS TH	AN THOSE PRESE	NT AT THE TIME MEASUREMENTS WI	ERE MADE.				_
								BORING NO.	GZA-150	

ZA GEO		18TH FLOOR,	, NEW YORK	, NY 10001	i. Park Edgewater			SHEET 1 of 1	
GINEEF	RS AND SCI	IENTISTS			45 River Rd Edgewater, NJ	1 1 1		FILE NO. 41,0161318. CHKD BY	<u> </u>
RING CO.		Summit			BORING LOCATION	·			
REMAN		Ronnie		_	GROUND SURFACE ELEV.		DATUM		_
A ENGINE	áER	A. Hough		_	DATE START	6/8/07	DATE END	6/6/07	_
MPI ER: C	Geographe TM -	2" diameter, 48-in	sch long, clear ar	etate liner, insta	illed with a hydraulic hammer.				_
DEPTH		SAMPLE]	SAMPLE DESCRIPTION	STRA	TUM EQUIP	MENT FIELD	T
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	В	BURMISTER CLASSIFICATION	DESCRI	PTION INSTA	LLED TESTING	
		4/2	0-4		erk brown, fine to medium SAND and fine in 0.8': Brown SAND, some fine Gravel, little				
	1								
				-				0	
		4/3.1	4-8	little fine Gravel	park brown, fine to medium SAND, little Silt, al. Bottom 1.4°: Black, fine to medium SAND (EL (possible slag, sulfur odor).				
	2					<u> </u>		0	
				-				19.8 17.3	
		4/2.4	8-12	S3: Black, fine that display hard pitch (poss	to medium SAND and fine GRAVEL, some sible slag).				
	3			1				4.8	
!					A WANTS and fine			0	
		4/3	12-16		slack, fine to medium SAND and fine om 2.2': Gray Sitty CLAY, some Organics d).			0	
	4			1				0	
B				<u> </u>	End of Boring 16'			0	
MARKS:	2) Sample co	collected from 0-2* collected from 3.6-4 collected from 13.8-	-4.1' for TAL meta	als and As SPLP	' analysis				
TES:	•				DUNDARY BETWEEN SOIL TYPES; TRANSI			. , , ,	_

		18TH FLOOR,	OF NEW YORK,		PROJECT i. Park Edgewater			1	SHEET	GZA-153 1 of 1	_
				*	45 River Rd				•	41.0161318.00	<u>, </u>
NGINEER	RS AND SCI	ENTISTS.			Edgewater, NJ		<u> </u>	 	CHKD BY		=
BORING CO.		Summit		-	BORING LOCATION						-
FOREMAN		Travis		-	GROUND SURFACE ELEV.			_ DATUM			_
GZA ENGINE	ER	A. Hough	·	_	DATE START	6/8/07		_ DATE END	6/8/07		
- · · · · · · · · · · · · · · · · · · ·	TM g	40 in		- tota Ener instal	led with a hydraulic hammer.	***************************************					
	eoprobe ···· - ∠	SAMPLE	ch long, clear au	tate liner, install	SAMPLE DESCRIPTION	STRAT	÷1,184	ÈQUIPA	ackit .	FIELD	R
DEPTH (FT)	SAMPLE	PEN/REC	DEPTH (FT)	В.	SAMPLE DESCRIPTION URMISTER CLASSIFICATION	DESCRI		INSTAL		TESTING	K
¥ ,	NO			1		<u> </u>		<u> </u>			L
		4/2.4	0-4	some fine Grave	rown to dark brown, fine to medium SAND, el, little Silt. Bottom 0.3': Gray, fine to and fine GRAVEL, little Silt.						
2				}						0	١,
- ——	1 1			-							
į				_						0	
4						İ				0	
		4/1.7	4-8		ray to brown, fine to coarse SAND, some e Silt. Bottom 1.1': Black, fine to coarse	ĺ			ļ		
					GRAVEL, little Organics (pieces of wood).						
l			+	1		İ					
6	2		 	4		i				ĺ	
	1		 	4		v	7 .		ļ	ĺ	2
i	1		 	4		-	=			0	
i	1		1	1		İ				10.5	
l						İ		1	ļ		3
		4/3.1	8-12		ck, fine to coarse SAND and fine Gravel. ay, Silty CLAY, some Organics (roots), (Hard from bottom).						
i			+	₹	,	İ			-	ĺ,	
İ	}			-{		İ				0	
10 —	3			4		i		1		l	
ĺ			<u> </u>	4		ĺ				٥	
i	ł	<u></u>		1		ĺ		Ì		l	
Į.	1	<u> </u>	<u> </u>	_		İ				0	ł
12	l		Τ	1		ĺ				l	4
i —					End of Boring 12'	į				l	
İ	ļ		†	1	ļ	İ				l	
İ			 	1		i				1	
!			 	1		l			1	1	
14	4		+	1		İ					
		<u> </u>	+	1		İ					
			 	4		ĺ					
				4		l					
16			<u> </u>	<u> </u>		<u> </u>		<u> </u>			上
REMARKS:	1) Sample co	ollected from 0-2"	for TAL metals r	analysis.							
	2) Sample cr	ollected from 6.2-6	6.7 for TAL met	als analysis.							
	3) Sample or	allected from 7-8°	for PP+40 and 8	SPLP As analysis.	4						
	4) Sample co	ollected from 10.9	1-11.4' for TAL m	etals analysis.							
NOTES:	•				OUNDARY BETWEEN SOIL TYPES; TRANSIT						
E .	2) WAILK L	EVEL REAUING	S HAVE BEEN W	AADE AL TIMES	AND UNDER CONDITIONS STATED; FLUCT	UATIONS OF G	ROUNDWAIR	ER JABLE			
	•				SENT AT THE TIME MEASUREMENTS WER						

074.05	OEAD (150	ALBERTAITAL	OF NEW	VODK						
		NMENTAL 8TH FLOOR,			PROJECT i. Park Edgewater		REPO	RT OF BORING NO. SHEET		
HAAO MIN I TI	AVENUE, I	om FLOOR,	MEAN LOIGH	141 10001	45 River Rd	·		*	41.0161318.00)
ENGINEER	S AND SCI	ENTISTS			Edgewater, NJ			CHKD BY		
BORING CO.		Summit		_	BORING LOCATION					
FOREMAN		Joe Neri		-	GROUND SURFACE ELEV.			DATUM		
GZA ENGINE	ER	A. Hough		•	DATE START	6/5/07		TE END 6/5/07		•
				•						-
SAMPLER: G	eoprobe™ - 2'		ch long, clear acc	tate liner, installe	d with a hydraulic hammer.				r	
DEPTH		SAMPLE	DESTU (FE)		SAMPLE DESCRIPTION	STRA		EQUIPMENT	FIELD	R
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)		URMISTER CLASSIFICATION	DESCRI	FIION	INSTALLED	TESTING	K
		2.5/5.0	0-5		vn, fine to medium SAND, some fine Gravel,				0	t
ļ]	2.5/5.0	0-3		Organics (pieces of wood). Bottom 0.2' Red o medium SAND, trace Silt, little fine Gravel.				1	
		—	<u> </u>	1			1		0	
1			ļ	1	:				0	
1	ļ		<u> </u>	ļ					0	
1	,			1			j		0	
	1]			l			ŀ
]			l			
1				1						1
				1			-		ļ	1
			 	1		W				İ
6 —			-	S2: Dark brown	fine to medium SAND, trace Silt, some fine	<u> </u>				1,2
i .	İ	0.2/1.0	5-6	Gravel (wet).			ļ		0	
1			<u> </u>		_					1
	1				Refusal at 6'		j			
1							į			
1				1			į			
i	2		 	1						
	1			1			ľ			
1)		 	4			i		İ	
1	1			_					1	
1				_						
10							l		1	
				}			l			
1				1						
				1			ŀ			ŀ
				1						
		-	-	-						1
	3			4						
1	į			4						
İ										
	1						l		l	
1							į		•	
16	1			1						
REMARKS:	1) Samula co	lected from 0-2	for TAL metal on	alvsis.				· · · · · · · · · · · · · · · · · · ·		•
NEWAKIO:					d geoprobe with a geoprobe 5410.					
			-				· · · · · · · · · · · · · · · · · · ·	,	v= ·	
NOTES:	1) STRATIFIC	CATION LINES R	REPRESENT AP	PROXIMATE BOL	JNDARY BETWEEN SOIL TYPES; TRANSITI	IONS MAY BE GI	RADUAL.			
_	2) WATER L	EVEL READINGS	S HAVE BEEN M	ADE AT TIMES A	AND UNDER CONDITIONS STATED; FLUCT	UATIONS OF GR	OUNDWATER TABL	E		
GZN	MAY OCCUP	R DUE TO OTHE	R FACTORS TH	AN THOSE PRES	ENT AT THE TIME MEASUREMENTS WER	E MADE.				
1	3) PIN BROK	E ON GEOPRO	BE, UNABLE TO	ADVANCE SAM	PLER. REPLACED WITH A GEOPROBE 541	0.				
L	4) SAMPLE	CONEECTED FR	OM 0-2" FOR M	ETAL ANALYSIS.				BORING NO.	GZA-154	

GZA GEO	PENVIRO	NMENTAL	OF NEW	YORK	PROJECT		REPO	ORT OF BORING NO.		
440 NINTH	AVENUE, 1	8TH FLOOR,	NEW YORK,	רטטטר אא	i. Park Edgewater 45 River Rd		Í.	SHEET FILE NO	1.011 41.0161318.00	3
ENGINEER	S AND SCI	ENTISTS			Edgewater, NJ		i	CHKD BY		
\vdash							<u> </u>			
BORING CO.		Summit		•	BORING LOCATION					-
FOREMAN		Joe Neri		-	GROUND SURFACE ELEV.			DATUM		-
GZA ENGINEI	ER	M. Hayes		-	DATE START		DA	TE END		•
CAMPIER: C	annoha TM - 2°	diameter 60-inc	h iono clear acc	tate liner install	ed with a hydraulic hammer.					
DEPTH :	leoprobe - 2	SAMPLE	ar rong, oldar do	1	SAMPLE DESCRIPTION	STRA	TUM .	EQUIPMENT	FIELD	R
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	E	SURMISTER CLASSIFICATION	DESCRI	.1	INSTALLED	TESTING	к
	NO			A				<u> </u>		ļ
				Air ng trireugn	concrete slab to 2' bgs					
1	ļ	{								}
				1						
				1						
1		 	-	S1: Concrete F	ragments.		ļ			
l	1	3/0.8	2-5	4					0	
1				4					0	
Į.]					0	
į										
				1		-	1			1
١.				1						
° —				S2: Black, fine	to coarse SAND, little Silt, little fine Gravel.]			
		5/1	5-10	-			Ì			
1		<u></u>		-			İ			
			ļ	4			ļ			1
	1]			ļ			1
i	_]			İ			
	2			1	,		į į		٥	1
1				1			ŀ			
			<u> </u>	1			j		0	1
	l			4					0	1
	1		ļ	4			ļ			1
10			<u> </u>	1			ì			
	1	5/1.5	10-15		ck, fine to coarse SAND, little Silt, little fine 10.5': Peat (wet, sheen).		1		0.4	
1	l			1		7	<u> </u>		5.2	
ł				1			i		13.4	1
	1			1			1		,0.4	
1	1	-	†	1						1
	3		 	1			•			1
	1		 	4					1	1
			ļ	4						
1										
15				7	End of Boring 15'					
	.L				· · · · · · · · · · · · · · · · · · ·					·
REMARKS:										
ľ										
1										
				,						
<u> </u>										
NOTES:	-				UNDARY BETWEEN SOIL TYPES; TRANSIT					
I _	2) WATER L	EVEL READINGS	B HAVE BEEN N	ADE AT TIMES	AND UNDER CONDITIONS STATED; FLUCT	UATIONS OF GR	OUNDWATER TAB	LE		
GZN	MAY OCCUP	R DUE TO OTHE	R FACTORS TH	AN THOSE PRE	SENT AT THE TIME MEASUREMENTS WER	E MADE.		,		
7								BORING NO.	GZA-155	

.

GZA GE(DENVIRO	NMENTAL	OF NEW	YORK	PROJECT	en e	ı	REPORT OF BORING NO	. GZA-156	
440 NINTH	AVENUE, 1	18TH FLOOR,	NEW YORK,	NY 10001	i. Park Edgewater				1 of 2	
TUONEED	~ AND 601	PATIOTO			45 River Rd			. '). 41.0161318.00)
ENGINEER	2 WIND 9CII	ENTISTS	<u> </u>	·	Edgewater, NJ		<u> </u>	CHKD B		
BORING CO.		Summit			BORING LOCATION					_
FOREMAN		Joe Neri			GROUND SURFACE ELEV.			DATUM		_
GZA ENGINEE	≣R	M. Hayes			DATE START	6/8/97		DATE END 6/8/07		_
	eoprobe M - 2		th long, clear ace	tate liner, installe	d with a hydraulic hammer.	1			1	T
DEPTH (FT)	SAMPLE	SAMPLE PEN/REC	DEPTH (FT)	۱ ,	SAMPLE DESCRIPTION URMISTER CLASSIFICATION	STRAT DESCRI		EQUIPMENT	FIELD TESTING	R
VE 17	NO	FEMALO	DEFINAT,		ORMIGIER OLNGON IONION	0.00	FION	RWINGEL	TEGTING	^
		5/3	0-5		soil, brick fragments. Middle 0.5': Black, fine D, trace Silt. Bottom 0.5': Soft pitch.		· · · · · · · · · · · · · · · · · · ·			
! !		3/5		to medium save	D, trace Sir. Bottom v.5; Son piten.		1			
			 						0	
i !	i			1			i			
	-		<u> </u>]					23.2	1
1 /	1		<u> </u>				1			ı
ļ	i i						i		101	1
i !				1			1			1
[]			 	1		1	İ			1
ļ		<u> </u>	 	-			!			
	1		<u> </u>				1			
6	l					[ĺ			1
		5/1.5	5-10	S2: Top 0.3': So coarse SAND, s	off pitch. Bottom 1.2': Brown to black, fine to some Silt.				ļ	
	į		1		onio Oal		1			
•	İ			1						1
!			 	1			Ī			
•	ł		ļ							
i	2			1						
i	ļ						1		ļ	
]			1			
				1			1			1
			 	1			1		°	
1		ļ	 	1		<u> </u>				
10	<u> </u>		 	and the same made	ım to coarse SAND (wood pieces) (wet).		Z		0	
		5/1.9	10-15	S3: Gray, meun	im to coarse SAND (wood pieces) (wel).	İ			İ	
				}			1			
	1		Ť T	1						1
	Ì		 	1						
		-	 	1]		}	
	3		 	4						
1		<u> </u>	<u> </u>						1	1
				j			1		0	Į
1]			1		ļ	1
				1			1		٥	1
l			†	1			1		*	
15	<u> </u>			<u> </u>		<u> </u>	L			
REMARKS:										
ļ										
l										
NOTES:	1) STRATIFI	CATION LINES F	EPRESENT API	PROXIMATE BOL	JNDARY BETWEEN SOIL TYPES; TRANSIT	IONS MAY BE GI	RADUAL.		,	
	•				AND UNDER CONDITIONS STATED; FLUCT			TABL <u>E</u>		
					SENT AT THE TIME MEASUREMENTS WER			.		
(CZ\)								BORING NO.	GZA-156	

GZA GEO 140 NINTH	DENVIRO AVENUE, 1	NMENTAL 8TH FLOOR,	OF NEW YORK,	YORK NY 10001	PROJ i. Park Ed 45 Rivi		REI		NO. GZA-156 ET 2 of 2 NO. 41.0161318.00)
NGINEER	S AND SCI	ENTISTS			Edgewa			СНКО		
ORING CO.		Summit			BORING	LOCATION				_
OREMAN		Joe Neri			GROUND SURF	ACE ELEV.		DATUM		
3ZA ENGINE	ĒR	M. Hayes			D	TE START 6/8/07		OATE END 6/8/07		
241401.506		t diameter CO inc		data liner installe	ed with a hydraulic hammer.					
DEPTH	eoprobe - 2	SAMPLE	on long, clear ace	tate mer, mstan	SAMPLE DESCRIPTION	STRA	TUM	EQUIPMENT	FIELD	R
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)		URMISTER CLASSIFICATION	DESCR	E .	INSTALLED	TESTING	к
		5/4	15-20	S4: Gray, Silty (CLAY.				0	
	4								D	
									0	
									0	
20		<u> </u>			End of Boring 20'	· ·	1			
					Life of Boring 20					
										:
	5									
25										
				1						
	6									
				1						
30 REMARKS:	<u> </u>	1		L		L	L			_
NEW YORK										
NOTES:										
(Z)								BORING NO.	GZA-156	

GZA GE	OENVIRO	NMENTAL	OF NEW	YORK	PROJECT					,
		18TH FLOOR			i. Park Edgewater		REPO	ORT OF BORING NO	D. GZA-157 T 1 of 1	<u> </u>
					45 River Rd				D. 41.0161318.0	00
ENGINEE	RS AND SC	ENTISTS			Edgewater, NJ		*	CHKD B	111	
BORING CO		Summit			BORING LOCATION	v	-i			
FOREMAN		Travis		-	GROUND SURFACE ELEV			DATUM	· · · · · · · · · · · · · · · · · · ·	-
GZA ENGINI	EER	A. Haugh		•	DATE STAR			TE END 6/8/07		-
				*				1E END 0/0/07		
SAMPLER:	Geoprobe TM - 2	" diameter, 48-in	ch long, clear ac	etate liner, instal	ed with a hydraulic hammer.					
DEPTH		SAMPLE	·		SAMPLE DESCRIPTION	STRAT		EQUIPMENT	FIELD	R
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	В	URMISTER CLASSIFICATION	DESCRIP	TION	INSTALLED	TESTING	K
	NO			S1: Brown to bla	ick, fine to coarse SAND and fine GRAVEL					┿
į			<u> </u>	1			-		٥	
		<u> </u>		ł			1		0.4	
			1	1		1	į		0	İ
2	1			}			•			
	1		l			1			İ	1
]					1	
				1					1	
4	1		 	İ			}			
⁻ —	 	 	 	S2: Black, fine t	coarse SAND and fine GRAVEL, little Silt.	≚				1
			 	1						1
			-	1						
		ļ		ļ		1				
6	2]		ŀ	1			1
	1 -			ļ			Į.			
							1		"	
				1			1		1	
_			 			l			0	1
* —	+			S3: Top 2': Black	k, fine to coarse SAND and fine GRAVEL,		1		1	1
				little Silt. Bottom	0.7': Gray, Silty CLAY.					İ
									ŀ	1
10] 3									
]	ĺ				1			١.	l
						1			^	
						į	i			
40						1	1		0	
12	 				End of Boring 12'	1				
			 		··• ·-	•				
	1	ļ								
						1				
14	4						1			
	1									
						[
16	<u> </u>					<u> </u>			L	\Box
REMARKS:										
NOTES:					NDARY BETWEEN SOIL TYPES; TRANSI					
					ND UNDER CONDITIONS STATED; FLUC		DUNDWATER TAB	LE		
GZ\)	MAY OCCUR	DUE TO OTHER	PACTORS THA	IN THOSE PRES	ENT AT THE TIME MEASUREMENTS WEI	RE MADE.		BORING NO.	GZA-157	

O NINTH A	ENVIRO AVENUE, 1	NMENTAL 8TH FLOOR,	OF NEW YORK	YORK , NY 10001	PROJECT i. Park Edgewater 45 River Rd		F	REPORT OF B	SHEET		<u> </u>
NGINEERS	S AND SCI	ENTISTS			Edgewater, NJ				CHKD BY		
RING CO.		Summit			BORING LOCATIO	DN	 				
REMAN		Travis		•	GROUND SURFACE ELE			DATUM			•
A ENGINEE		A. Hough		•	DATE STAF			DATE END	6/8/07		•
				-		(1 <u>0,00</u>		DATE LIND			_
MPLER: Ge	eoprobe™ - 2	diameter, 48-ind	ch long, clear ac	etate liner, instal	led with a hydraulic hammer.						
DEPTH		SAMPLE	1] _	SAMPLE DESCRIPTION	STRA*		EQUIPM		FIELD	ı
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	B	URMISTER CLASSIFICATION	DESCRI	PTION	INSTAL	LED	TESTING	
		4/1,1	0-4		rk brown, fine to coarse SAND, some fine , little Organics (pieces of wood)					0	
·	1			-							
									v.		
4]				- !		1	
		4/1.7	4-8	S2: Orange-bro some fine Grav	wn to dark brown, fine to coarse SAND, el, little Silt.						
			 	-						1	١
' —	2			-							
- 1		<u></u>		4							l
j				1	•	<u>~</u>				0	l
]						0	ı
8										0	
		4/0.9	8-12		rown, fine to medium SAND and fine Silt. Bottom 0.2' Gray, Silty CLAY.						١
ĺ				10,000	one bottom out oray, only out !.						١
İ				1						l	l
. [1							l
° —	3		 	1							l
Ī				┪						1	l
				-{		1					l
				-		ł				0	l
12			<u> </u>			_				0	l
			<u> </u>]	End of Boring 12'	1					l
- 1						1					l
1				1		1					ı
,				1							ļ
14	4		†	1							
			 	1							
			 	1							
	1		-	4							
	L	1		<u> </u>						L	L

			OF NEW Y		PROJECT	1		REPORT OF B			_
O NINTH	AVENUE,	18TH FLOOR,	NEW YORK,	NY 10001	i. Park Edgewater 45 River Rd				SHEET	1 of 1 41.0161318.0	_
IGINEER	S AND SCI	ENTISTS	•		Edgewater, NJ				CHKD BY		_
RING CO.		Summit			BORING LOCATION	•		· · · · · · · · · · · · · · · · · · ·			_
REMAN		Travis			GROUND SURFACE ELEV.			DATUM			
A ENGINEE	ER	A. Hough			DATE START	3/7/07		DATE END	6/7/07		
		National AS in		tate lines instal	led with a hydraulic hammer.						_
DEPTH DEPTH	eoprobe - 2	SAMPLE	in long, clear act	nate inter, instan	SAMPLE DESCRIPTION	STRAT	UM	EQUIPI	MENT	FIELD	Γ
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	В	URMISTER CLASSIFICATION	DESCRIP	TION	. INSTA	LLED	TESTING	١
	NO	4/2.1	0-4	fine to medium	PHALT and fine GRAVEL. Middle 1.1': Black, SAND and fine GRAVEL, little Sit. 1-1.2'						ľ
				mo are spoon a	and Bottom 0.5': Soft pitch.					0	١
										6,9	ı
	1							İ		65	
											1
										ŀ	
j								1		}	
		1								ŀ	
		4/0.8	4-8	S2: Top 0.6': Se CLAY, little fine	off pitch. Bottom 0.2": Brown to gray, Silty e Gravel.			ļ			
	ļ										
	2										
]									ļ	
	1										
										8.7	
	1			[4.1	
_		4/3.6	8-12		ray to brown, Silty CLAY little fine Gravel, mots). Bottom 1': Black fine to medium						
		7,5.5		SAND, some fit						<u> </u>	
				1						49.1	
				ł						9.8	
	3		<u> </u>							9.1	
		-	<u> </u>								
				1						4.9	
	İ		<u> </u>	1						0	
	 		1		End of Boring 12'						
			 	1							
	ŀ		 	1						İ	
			 	1							
	-		 	1				1			
			 	1						1	
	[1]	
	}		 	{						1	
3	<u> </u>			L	l			<u> </u>		<u>i</u>	

S AND SCI		R, NEW YORK,	, NT 10001	i. Park Edgewater			* .	SHEET	7071	
S AND SC		•	L	45 River Rd			•		41.0161318.00	_
	Promotit	1		Edgewater, NJ		·		CHKD BY		<u></u>
	Strintint		_	BORING LOCATION						_
	Travis			GROUND SURFACE ELEV.			DATUM			_
R	A. Hough		•	DATE START	6/7/07		DATE END	6/7/07		_
		· · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	the headenstie harmonge						-
oprobe	Z" diameter, 48-ind SAMPLE	ch long, crea ac-			STRAT	'UM	EQUIPA	MENT	FIELD	T
SAMPLE	PENVREC	DEPTH (FT)	•		1				TESTING	
NO.	4/1.6	0-4	Sifty CLAY, little fine (Gravel. Next 0.6': Black, fine GRAVEL,						
1										
			 							
			1		Z					
	4/3.5	4-8	Silt. Middle 0.4': Gray	, fine to medium SAND, some Silt,						
ı]	1						
2		+	4	ļ						
į		+	1	!					ł	Ì
		+	1	ļ						
			†							
				End of Boring 8'	1				l	
ı]	ļ	}					
İ		<u> </u>]	ļ	1	ļ	ļ		i	
3		T]	ļ	į	ļ			i	
ı		T	1	ļ	İ				i	
i			1	!		1			l	1
ĺ		1	†	1	İ	1	İ	1	l	
ĺ		+	†	!		ļ	İ	1	l	
	+	+	4	ļ		ŀ			l	
ł	ļ	+	4	!					l	1
i	<u> </u>		4	!				1	l	
i			_	!				1	i	-
i .		T	1	!					l	-
1 1			1	!				1	l	
l		+	1	!				ı	İ	
l		+	-	ı		ļ			l	
l	<u></u>		_}	ı					l	Ì
i		<u> </u>					<u> </u>		L	
	SAMPLE NO	SAMPLE SAMPLE NO 4/1.5 1 4/3.5 2	SAMPLE PEN/REC DEPTH (FT) A/1.6 0-4 A/3.5 4-8 2 3	SAMPLE SAMPLE PENREC DEPTH (FT) 4/1.5 4/1.5 4/1.5 4/3.5 4-8 S2: Top 2.1': Gray to list. Middle 0.4': Gray, some fine Gravel (shi	SAMPLE NO 4/1.6	SAMPLE PENREC DEPTH (FT) SAMPLE PENREC DEPTH (FT) BURMISTER CLASSIFICATION 4/1.6 4/1.6 4/1.6 51: Top 0.5: ASPHALT and fine GRAVEL, Next 0.7: Black fine GRAVEL, some black, fine to medium, Sand. Bottom 0.5: Soft pitch. S2: Top 2.1: Gray to brown CLAY, some fine Gravel, little Sit Middle 0.4: Gray, fine to medium SAND, some Sit, some fine Gravel (sheen 1-1.5' from top). 2 End of Boring 8'	SAMPLE SAMPLE SAMPLE DESCRIPTION STRATUM DESCRIPTION A/1,6	SAMPLE PENREC DEPTH (FT) NO 4/1.6	SAMPLE PENREC DEPTH (FT) NO 4/1.6 C-4 Siny CLAY, lithe fine Gravel. Next 0.5°: Black, the GRAVEL, some black, fine to medium, Sand, Bottom 0.5°: Soft pitch. 4/3.5 4-9 SSt. Indicate 0.4°: Gray, fine to medium SAND, some Silt, some fine Gravel (Aheen 1-1.5° from top). End of Boring 8° End of Boring 8°	SAMPLE PENNEC DEPTH (FT) SAMPLE PENNEC DEPTH (FT) NO 4/1.6 Q-4 St. Top 0.8°. ASPHALT and fine GRAVEL. Next 0.7°. Black fine Cornel. Not 0.8°. Select, fine to medium. Sand. Bottom 0.8°. Sel prich. 1 4/1.5 Q-4 St. Top 2.1°. Cray to brown CLAY, some fine Gravel, little Sal. Middle 0.4°. Cray, fine to medium SAND, some Sil., some fine Gravel (pheen 1-1.5° from top). 2 End of Boring 8° End of Boring 8°

	AVENUE 1	8TH FLOOR,	OF NEW			JECT dgewater		REPORT OF	BORING NO. SHEET		
	, . v = J TUE,			<u>L</u>		ver Rd				41.0161318.00	
IGINEER	S AND SCI	ENTISTS			Edgew	ater, NJ		<u> </u>	CHKD BY		
RING CO.		Summit			BORING	S LOCATION					
REMAN		Travis		-	GROUND SUR	FACE ELEV.		DATUM	l		-
ZA ENGINEE	≣R	A. Hough		_	ľ	ATE START 6/7/07		DATE END	6/7/07		-
				-							-
	eoprobe [™] - 2		ch long, clear ac	*	with a hydraulic hammer.			7 P - 7 Lat 1			F
DEPTH	DAME! F	SAMPLE PEN/REC	DEPTH (FT)	1	AMPLE DESCRIPTION MISTER CLASSIFICATION	1	STRATUM DESCRIPTION		PMENT ALLED	FIELD TESTING	
(FT)	SAMPLE NO	PEWREC	DEPTH (FT)				DESCRIPTION	114317	ALLED	TESTING	
		4/1.6	0-4	S1: Top 0.9': ASPH Gray, Silty CLAY, s	ALT and fine GRAVEL. Bo tome fine Gravel.	ttom 0.7':				0	Γ
i]				ŀ		١ ,	l
				1			$\underline{\underline{\mathbf{v}}}$				l
				1						"	ı
' —	1		 	-				1			l
				4							l
- 1		<u></u>		4							ı
		<u></u>		1		I					l
		<u></u>	ļ								l
		4/2.5	4-8		GRAVEL, same gray, Sitly (AY, some fine Gravel.	LAY. Bottom				Ì	l
				1						1	l
_		<u> </u>	1	1						١.	l
³ —	2			1						°	l
				- 1							١
	1		 	4		ŀ		1		0	ŀ
			ļ	4						1	ı
8			<u> </u>							0	l
	l			_	End of Boring 8'	l					ı
	1]							l
				7				-		}	l
10				1						İ	ı
	3		†	†						1	l
		 	 	1				Į.		1	ı
	ļ		 	-{							l
				4						1	l
12		ļ		4						ł	l
				_						1	Ì
				_							ļ
	1										l
14]		l					
	1 1			1						1	ĺ
			1	1						[
		 		1		1					
		ļ		1						1	l
16	<u> </u>		<u>. </u>	1				L		L	L

IONIEETO ***			C, NY 10001	i. Park Edgewater	· · · · · · · · · · · · · · · · · · ·			SHEET		_
IGINEEKS AND	SCIENTISTS			45 River Rd Edgewater, NJ	 ;			FILE NO.	41.0161318.0	0
RING CO.	Summit		· · · · · · · · · · · · · · · · · · ·	BORING LOCATION						=
REMAN	Travis		-	GROUND SURFACE ELEV.			DATUM			-
A ENGINEER	A. Hough		-	DATE START	6/7/07		DATE END	6/7/07		-
		•	-					0///0/		
		nch long, clear ac	etate liner, installe	ed with a hydraulic hammer.						
(FT) SAMPI	.E PEN/REC	DEPTH (FT)	٠,	SAMPLE DESCRIPTION	STRAT		EQUIPA		FIELD	Г
NO	E FENREC	DEPIN (FI)		JRMISTER CLASSIFICATION	DESCRI	PTION	INSTAL	LED	TESTING	
	4/2.4	0-4	S1: Top 0.9': AS	PHALT and fine GRAVEL. Bottom 1.3':	· · · · · · · · · · · · · · · · · · ·				<u> </u>	t
1			DISCK, INTO TO THE	dium SAND, little Silt, some fine Gravel.					0	l
Ì			1				İ			l
		 	†	1				i	0	l
1		 	1				İ			l
	-	 	1				1		0	ĺ
		+	4							1
		-					1			
'		<u> </u>			<u> </u>	<u> </u>				ı
1	4/0.9	4-8	Gray to brown, S	off pitch, some fine Gravel. Bottom 0.4': lifty CLAY,						
		1								l
							1			l
			1	İ						
2		1	1							l
			1	;						l
	-		1							l
1	 	 							0	
' 				End of Boring 8'					0	1
		ļ		este of Bolang 6						
	<u> </u>									ĺ
]	1			1			ı
0 3			j							ı
]	ŧ				1		ĺ
1			}							ĺ
		1	1	l				- 1		ĺ
		†	1				ŀ			
· ——			f					- 1		ĺ
			1					ļ		
		<u> </u>	Ī							l
		 	l				1			ĺ
4 4		<u> </u>	}	1						
		<u> </u>								
							1	İ		
								- 1		
,								ŀ		
MARKS:		•	<u> </u>		***					_
TES: 1) STRAT	FICATION LINES F	EPRESENT APP	PROXIMATE BOU	NDARY BETWEEN SOIL TYPES; TRANSITIO	ONS MAY BE GF	RADUAL.				_
2) WATER	LEVEL READINGS	HAVE BEEN MA	ADE AT TIMES AN	ND UNDER CONDITIONS STATED; FLUCTU	ATIONS OF GR	OUNDWAT	ER TABLE			

oin===	O 4415 001	CALTIOTO		45 River Rd			41.0161318.00	<u> </u>
GINEER	S AND SCI	ENTISTS		Edgewater, NJ		CHKD B	ſ	
RING CO.		Summit		BORING LOCATION				
REMAN		Travis		GROUND SURFACE ELEV		DATUM		
A ENGINE	ER	A. Hough		DATE START 6/	/7/07	DATE END 6/7/07		
	THE A	40 !	h I ele-e	etate liner, installed with a hydraulic hammer.				
MPLER: G	eoprobe - 2	SAMPLE	on long, clear ac	SAMPLE DESCRIPTION	STRATUM	EQUIPMENT	FIELD	R
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	BURMISTER CLASSIFICATION	DESCRIPTION	INSTALLED	TESTING	l k
```	NO		· ·					
		4/3	0-4	S1: Top 0.9': ASPHALT and fine GRAVEL. Middle 0.8': Brown, fine to medium SAND, some fine Gravel, little Silt,			0	l
				little pink, fine Sand. Bottom 1.3': Black, fine to medium SAND, some Silt, some Organics (pieces of wood).			1	
				CAND, SOME CIRCUIT CIGARINGS (PIECES OF WOOD).			٥	
2								
-	1			1				i
			<del>                                     </del>	1	<u>v</u>		0	
		<del> </del>	<del> </del>	1	<del>-</del>	1	0	
		-	<u> </u>	1				
<b>'</b> —			<u> </u>	S2: Top 0.9': Brown to black, fine to medium SAND, some		1		
		4/3.6	4-8	fine Gravel, little Silt. Middle 0.3': hard pitch. Bottom 2.3':			0	1
			<del>                                     </del>	Gray to brown, Sitty CLAY.				
	1			1			0	
в	2			]			1	
	_			]			0	ł
				1			1	
				1				
				1			*	
° —		<del>                                     </del>		End of Boring 8'		<b>,</b>		
				1				1
	ĺ	ļ		1				
	1			-				
10	3			-				
	1							
							1	
			<u></u>			1		
2								
				Ì			ŀ	
	l			1			İ	
				1			ŀ	ļ
			<del>                                     </del>	1				
14	4			1				
			<u> </u>	1			1	
			╁—	- 1		İ	1	
	ļ	<u> </u>		4			]	
16	<u> </u>	<u> </u>	L	<u> </u>			1	

SZA GEO	ENVIRO	NMENTAL 8TH FLOOR,	OF NEW	YORK	PROJECT			REPORT OF B			
40 NINTH A	VENUE, 1	BIH FLOOR,	NEW YORK	, NY 10001	i. Park Edgewater 45 River Rd	· · · · · · · · · · · · · · · · · · ·	1		SHEET		١
NGINEERS	AND SCI	ENTISTS			Edgewater, NJ	<del> </del>			CHKO BY	41.0161318.00	
ORING CO.		Summit			BORING LOCATION		<u> </u>			· · · · · · · · · · · · · · · · · · ·	
OREMAN		Travis			GROUND SURFACE ELEV.			DATUM			•
ZA ENGINEER	R	A. Hough		_	DATE START	6/7/07		DATE END	6/7/07		
	. 74							<del>-</del>			
	aprobe'''' - 2'	diameter, 48-in	ch long, clear ac	etate liner, install	ed with a hydraulic hammer.  SAMPLE DESCRIPTION	STŔA	TI INA	EQUIPI	MEAIT	FIELD	R
DEPTH (FT)	SAMPLE	PEN/REC	DEPTH (FT)	В	URMISTER CLASSIFICATION	DESCRI		INSTA		TESTING	K
	NO			04 7 - 0 ft 46	201417		<del></del>				L
- [		4/2.6	0-4	Dark brown to b	SPHALT and fine GRAVEL. Middle 0.9': lack, fine to medium SAND, some Sitt,			1			
1				some fine Grave	el. Bottom 1.2': Hard pitch.						
]											l
2				1							
-	1			1							1
1		<del>                                     </del>	<del> </del>	1				j			l
ŀ		<u> </u>	<del> </del>	┪				Ì		°	
İ				1		_	<u>Z</u>			ł	
<b>⁴</b> —			<del>                                     </del>	82: Top 1.6': Ha	ard pitch. Bottom 2.4': Gray to brown, Silty	<u> </u>	<u>-</u>			0	1
		4/4	4-8	CLAY, little fine				i e		٥	•
ŀ				1				1		1	
•				1						0	
6	2									İ	
	•			]				ł			
				1							
1				†				ŀ		١,	
.		<u> </u>	İ	1						°	
°		<del>                                     </del>	<del>                                     </del>	<del> </del>	End of Boring 8'					1	
		<u> </u>	<u> </u>	┨							
1			<del> </del>	4						l	ļ
		<b></b>		4							ļ
10	3		ļ	4	1					l	ŀ
				1				Ī		1	
			1	j						İ	ŀ
			1							•	
12				]				ł		1	
				1						İ	
				1	İ					l	
1		<b>—</b>	<del>                                     </del>	1						1	1
				┪							Į
14	4	<del></del>	<del> </del>	-{							l
			<del> </del>	4				1			1
ŀ				4							l
			ļ	4	i						
16	_										<u> </u>
REMARKS:				ing moved 0.8' so	uth.  UNDARY BETWEEN SOIL TYPES; TRANSIT	TIONS MAY BE (	GRADUAL.				_
	2) WATER L	EVEL READING	S HAVE BEEN I	MADE AT TIMES	AND UNDER CONDITIONS STATED; FLUCT SENT AT THE TIME MEASUREMENTS WEF	UATIONS OF G		ER TABLE			
GZ\)	UUUU!	COUL TO UTHE	A I ROTORO IF	"", "NOGE FRE		- INCDE.			NG NO		

ı

		NMENTAL 18TH FLOOR			PROJECT i. Park Edgewater	1	REP	ORT OF BORING NO	. GZA-159G	
רו ואוואוי טוי	AVENUE,	ISIN PLOOK	, NEW TORK	, 141 10003	1. Park Edgewater 45 River Rd				. 41.0161318.0	0
NGINEEF	RS AND SC	IENTISTS			Edgewater, NJ			CHKD BY		
ORING CO.		Summit		_	BORING LOCATION					_
DREMAN		Travis			GROUND SURFACE ELEV.			DATUM		_
ZA ENGINE	ER	A. Hough		-	DATE START	6/7/07	D/	ATE END 6/7/07		_
MOI ED: C	Sennrohe TM - 2	" diameter AR-in	ch long clear ac	etate liner installe	ed with a hydraulic hammer.					
DEPTH	seoprobe - 2	SAMPLE	ciriong, dear ac	State inter, material	SAMPLE DESCRIPTION	STRAT	UM .	EQUIPMENT	FIELD	F
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	В	JRMISTER CLASSIFICATION	DESCRIP		INSTALLED	TESTING	K
	NO	1	<u> </u>	S1: Top 1.1': AS	PHALT and fine GRAVEL. Middle 0.4': Dark				<u> </u>	┡
		4/2.6	0-4	brown, fine to m	edium SAND and fine GRAVEL, little Silt.				٥	l
	1	<u> </u>	<b> </b>		ck, Silty CLAY, little fine Gravel, little tch) (at approximately 1.9-2.1' hard pitch).					
	ł								0	İ
·	1			]		_	,			
	1					≛	:		21.1	ı
	ľ					ļ				l
									}	l
4				1						
	<del> </del>				ck, Sitty CLAY (soft pitch). Bottom 1.5':					
		4/1.9	4-8	One large piece pitch).	of wood, some black, Silty Clay, (soft					1
		<b>-</b>	ļ			j				l
	1	<u> </u>		-						L
·	2	<b></b>	<u> </u>	4						ı
			ļ	4					. 24.3	ı
	<u> </u>		<u> </u>						98.1	ı
	1		<u> </u>	1					36.7	l
В	ł			]			į		21.9	
		4/2.9	8-12		ick, Silty CLAY, some Organics (pieces of Gravel (soft pitch). Bottom 2': Gray to					
				brown, Silty CLA					l.	l
				1		ļ			١.	L
			<u> </u>	1		ļ	1		0	
· —	3		<del> </del>	†					0.9	
			<del> </del>	4						L
				-					0	L
	1	<u> </u>	ļ	4						
12				<u> </u>	E-1-496-2 AD				0	
				]	End of Boring 12'				İ	
	1						1			
						1				
4			T	1						
	1 ⁴		1	1					1	
	1		1	1			1		1	
			<del> </del>	1					1	
	1		<del> </del>	1						
6	<u></u>			<u> </u>		L			<u> </u>	上
16 REMARKS:	<u> </u>	1	<u></u>			<u> </u>				
										_
OTES:	1) STRATIF	ICATION LINES F	REPRESENT AP	PROXIMATE BOX	INDARY BETWEEN SOIL TYPES; TRANSI	TIONS MAY BE G	RADUAL.			
_	2) WATER L	EVEL READING	S HAVE BEEN N	NADE AT TIMES A	AND UNDER CONDITIONS STATED; FLUC	TUATIONS OF GR	OUNDWATER TA	BLE		
	MAY OCCU	R DUE TO OTHE	R FACTORS TH	IAN THOSE PRES	SENT AT THE TIME MEASUREMENTS WE	RE MADE.				
man ()								BORING NO.	G74-159G	

		NMENTAL			PROJECT		REPOR	T OF BORING NO		
440 NINTH	AVENUE,	18TH FLOOR,	, NEW YORK	, אין זיטטטז	i, Park Edgewater 45 River Rd				T <u>1 of 2</u> ). 41.0161318.00	
ENGINEER	S AND SCI	ENTISTS			Edgewater, NJ			CHKD B)		
										•
BORING CO.		Summit		•	BORING LOCATION					-
FOREMAN		Travis		•	GROUND SURFACE ELEV.		D/	ATUM		-
GZA ENGINE	ER	A. Hough		•	DATE START	6/7/07	DATE	END 6/7/07		-
CAMPIER. C	SaannahaTM 2	" diameter 49 in	ob long, clear ac	atata linar inetal	led with a hydraulic hammer.					
DEPTH	eoprobe - 2	SAMPLE	ciriong, clear ac	otate mier, matar	SAMPLE DESCRIPTION	STRAT	TUM F	EQUIPMENT	FIELD	R
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	В	URMISTER CLASSIFICATION	DESCRI	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	INSTALLED	TESTING	ĸ
	NO	ļ							<u> </u>	乚
		4/1.6	0-4		SPHALT and fine GRAVEL. Bottom 1': nedium SAND, little Silt, some black soft				0	
	ŀ	1	ŀ	pitch.			<u> </u>			
	l								0	1
2			T	1			-			1
· —	1		1	1						ļ
	İ		<del> </del>	1						
			<u> </u>	ł		ļ	ŀ			
				ł		ŀ			1	
4			ļ		and the second of the second of the second of	}			1	
		4/0.3	4-8	Wood, little fine	is pitch and soft pitch, some pieces of Gravel.	1			]	
	İ					ŀ	ļ		1	
			]			ļ			1	1
6									1	
	2			1					Ì	I
•	1			1						
ŀ				1 .					1	
	1		<del> </del> -	1					ŀ	
* —	<del> </del>	+	<u> </u>	S3: Top 0.9': Le	ess viscous pitch. Bettern 0.7': Gray to				65.6	
	1	4/1.6	8-12		AY, little viscous pitch.				1	
			<u> </u>				l			
	ļ						ļ		l	
10	3								1	ļ
		!				ļ			1	l
l						}			2.5	
1	Ì			i .					18.3	1
4.0	}	<del></del>	†	1					i	
12			<del>-</del>	S4: Top 0.9': Le	ess viscous pitch (sheen). Bottom 0.4':		1		65.3	
	1	4/2.3	12-16	Black, fine to m (sheen).	edium SAND, some fine Gravel, little Silt		1		53.5	
	ŀ		<del> </del>	1		]	ļ		33.7	1
1			<del> </del>	4			1			1
14	4			1			1			
	1			_					Ì	Ì
				]			ŀ		1	
	ļ						1			
16	1			1					1	
REMARKS:				• • • • • • • • • • • • • • • • • • • •		<del>* </del>	. *.			•
KEMPAKS.										
1										
				000VIII.475.55	INDARY BETWEEN CON TURES TO	TIONS ISSUES	DARIJA			
NOTES:	-				UNDARY BETWEEN SOIL TYPES, TRANSI			_		
					AND UNDER CONDITIONS STATED; FLUC		KOUNDWATER TABL	=		
GZ\)	MAY OCCU	K DUE TO OTHE	K FACTORS TH	AN I HOSE PRE	SENT AT THE TIME MEASUREMENTS WE	KE MADE.		BORING NO.	G78 45011	
								PORING NO.	GZA-159H	

GZA GEO	DENVIRO	NMENTAL 8TH FLOOR,	OF NEW	YORK	PROJECT			REPORT OF B			
440 NINTH	AVENUE, 1	eth floor,	NEW YORK	NY 10001	i. Park Edgewater 45 River Rd		1		SHEET		
ENGINEER	S AND SCI	ENTISTS			45 River Rd Edgewater, NJ	T			CHKD BY	41.0161318.00	0
CHOMPEN	O AND GO	E1411010					ķ	<del></del>	OI II O		
BORING CO.		Summit		•	BORING LOCATION	N					_
FOREMAN		Travis		-	GROUND SURFACE ELEV	[,]		DATUM			_
GZA ENGINE	ER	A. Hough		_	DATE STAR	T 6/7/07		DATE END	6/7/07		
SAMPLER: G	eoprobe™ - 2	diameter, 48-ind	ch long, clear ac	etate liner, install	ed with a hydraulic hammer.	_					
DEPTH		SAMPLE			SAMPLE DESCRIPTION	STRA		EQUIP	MENT	FIELD	R
(FT)	SAMPLE	PEN/RÉC	DEPTH (FT)	В	URMISTER CLASSIFICATION	DESCR	PTION	INSTA	LED	TESTING	K
·	NO NO	4/2.3	16-20	and fine GRAVE	d bottom 0.2': Black, fine to medium SAND, EL (sheen). Middle 2': Black CLAY, some A material, little soft pitch.						$\vdash$
					· · · · · · · · · · · · · · · · · · ·						
40											1
18	5	<del>                                     </del>		1				İ			Į.
	1	·		1		Į.		Ì		48.9	
			<u> </u>	1				1		42.1	
				]				1		68.6	
20	•					I		1		74.1	
	<del></del>	<del>                                     </del>			ack, Silty CLAY, (soft pitch), some less			1		ŀ	
	ŀ	4/4	20-24	viscous pitch . E	Sottom 0.4': Black SAND and fine GRAVEL			1		7.4	
	l .			1				1		2.7	
						1		]		14.7	
22	<u> </u>					1		ŀ		58.8	
	6		· · · · · · · · · · · · · · · · · · ·	1		j		İ		30.0	
		<del></del>		-		1		ł			
						1				10.3	
	1					1		İ			ı
24	1					ı		1		25,1	İ
					End of Boring 24'	7					
			<del> </del>	1		1		i			
				1				1			
	ļ			]		1		ì		1	
26	} .					j		1			1
	7			1		1		l		į	
	i	<del></del>	<del>                                     </del>	1		İ		i		1	İ
	]	ļ	ļ	-		1		1		1	1
	1			1		1		1		1	İ
28	<u>L</u>	<u>L</u>		1						1	1
	1							1			f
	Į.			1				1			1
				4							
[		<u></u>	<b></b>	4				1			
30	8		1	]				1			
	]			1							1
l			<del> </del>	1				1			
I	1	<del></del>	<del> </del>	1				}			
1	1		ļ	1				1			1
32	<u></u>	<u> </u>						<u> </u>		<u> </u>	
REMARKS:											
l											
NOTES:	1) STRATIFI	CATION LINES R	EPRESENT AP	PROXIMATE BO	UNDARY BETWEEN SOIL TYPES; TRANS	SITIONS MAY BE	SRADUAL.				
Ī	•				AND UNDER CONDITIONS STATED; FLU			ER TABLE			
	•										
GZN)	MAT UCCU	OUE IO DIME	n racions in	na muae PRE	SENT AT THE TIME MEASUREMENTS WI	LINE MAUE.			NO NO	<b>A A A A A A A A A A</b>	
· ′								BORI	NG NO.	GZA-159H	

ND SCIEM	NTISTS Summit Matt A. Hough	h long, clear ace	45 River Rd Edgewater, N BORING LOC GROUND SURFACE DATE  etate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION	OATION		T 1 of 1 0. 41.0161318.00 Y	<u>oʻ</u>
SAMPLE SAMPLE	Summit Matt A. Hough diameter, 60-incl SAMPLE		Edgewater, N BORING LOC GROUND SURFACE DATE  etate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION	CATION ELEV. START 6/11/07	CHKD BY		-
robe TM - 2" d	Matt A. Hough diameter, 60-inch SAMPLE		GROUND SURFACE DATE  etate liner, installed with a hydraulic hammer.  SAMPLE DESCRIPTION	ELEV. START <u>6/11/07</u>			- -
robe TM - 2" d	Matt A. Hough diameter, 60-inch SAMPLE		GROUND SURFACE DATE  etate liner, installed with a hydraulic hammer.  SAMPLE DESCRIPTION	ELEV. START <u>6/11/07</u>			- -
robe TM - 2" d	A. Hough diameter, 60-inch SAMPLE		DATE etate liner, installed with a hydraulic hammer. SAMPLE DESCRIPTION	START 6/11/07			<del>-</del>
robe TM - 2" d	liameter, 60-inch		etate liner, installed with a hydraulic hammer.  SAMPLE DESCRIPTION				-
SAMPLE	SAMPLE		SAMPLE DESCRIPTION	OTPATIM			
		DEPTH (FT)	<b>7</b>	i Giraium	EQUIPMENT	FIELD	F
		1	BURMISTER CLASSIFICATION	DESCRIPTION	INSTALLED	TESTING	K
ſ	5/2.3	0-5	S1: Top 0.6': ASPHALT. Middle 1.4': Gray to brown medium SAND, little Silt, some fine Gravel, some Org			†	T
			(pieces of wood). Bottom 0.3': Soft pitch.		]		
Γ			1				
Γ			1				
t			1			l l	
1 -		<del> </del>	†			0	1
}		<b></b>	4				
1		<b></b>	4				
1		<u> </u>					
l.			<u>_</u>	<u>▼</u>			
			]				
	5/3.6	5-10					
Ī		1	GRAVEL.	nne			
ł		†	†				١
ŀ		<del> </del>	4				
ļ	<del></del> !	<del> </del>	4				
2	ļ!	<u> </u>				0	
,	<u> </u>	<u> </u>			]	0	
ſ			1	ł			
ſ			1	•			
ľ	<del></del>	<del>                                       </del>	1		1		I
ŀ		<del> </del>	4		1		
<del></del>		<del>                                     </del>	S3: Too 2.1': Gray to Brown, Sifty CLAY trace fine G	ravel			I
)	5/2.8	10/15					
J	l		_		ļ		
J	 i	Γ	1		1		
ſ			1	ł	i	١,	
ţ			1	}			ŀ
3		<del> </del>	1	İ			
ļ			4			°	
J		<del> </del>	4	1			
J		<u> </u>		}			ı
	4	1	ł				l
<u>l</u>	ļ	<u> </u>	End of Boring 15'	l			
	2	5/3.6	2 5/2.8 10/15	S2: Top 2.8': Gray to brown CLAY, little Silt, trace fine Gravel. Bottom 0.8': Black, fine to coarse SAND and GRAVEL.  2  5/3.6  5-10  S2: Top 2.8': Gray to brown CLAY, little Silt, trace fine GRAVEL.  2  5/2.8  10/15  S3: Top 2.1': Gray to Brown, Silty CLAY trace fine GRAVEL.  S3: Top 2.1': Gray to Brown, Silty CLAY trace fine GRAVEL.	2  S2: Top 2.8': Gray to brown CLAY, little Silt, trace fine Gravel. Bottom 0.8': Black, fine to coarse SAND and fine GRAVEL.  S3: Top 2.1': Gray to Brown, Silty CLAY trace fine Gravel. Bottom 0.7': Black, fine to coarse SAND and fine GRAVEL.	5/3.6  5-10  S2: Top 2.8': Gray to brown CLAY, little Silt, trace fine Gravel. Bottom 0.8': Black, fine to coarse SAND and fine GRAVEL.  5/2.8  10/15  S3: Top 2.1': Gray to Brown, Silty CLAY trace fine Gravel. Bottom 0.7': Black, fine to coarse SAND and fine GRAVEL.	S2: Top 2.8': Gray to brown CLAY, little Silt, trace fine Gravel. Bottom 0.8': Black, fine to coarse SAND and fine GRAVEL.  32: Top 2.8': Gray to brown CLAY, little Silt, trace fine GRAVEL.  0 0 0 0 0 0 0 0 0 0 0 0 0 0

		ONMENTAL 18TH FLOOR,			PROJECT i. Park Edgewater		REPO		1 of 1	
ENGINEER	RS AND SCI	ENTISTS			45 River Rd Edgewater, NJ		· .	FILE NO	41.0161318.0	0
BORING CO.		Summit			BORING LOCATIO					==
FOREMAN		Matt		-	GROUND SURFACE ELE			DATUM		-
GZA ENGINE	:FP	A. Hough		-	DATE STAR			TE END 6/11/07	·····	-
02121101112		7. Trough		-	DATESTA	W11/07	UA	E END 6/11/0/		
	Geoprobe™ - 2		ch long, clear ac	tate liner, installe	d with a hydraulic hammer.	į				
DEPTH (FT)	SAMPLE	PEN/REC	DEPTH (FT)	]	SAMPLE DESCRIPTION URMISTER CLASSIFICATION	STRAT DESCRIP		EQUIPMENT	FIELD TESTING	R
		5/2.5	0-5	S1: Top 1': Aspt black, fine to coa (pieces of wood)	alt and fine Gravel. Bottom 1.5': Gray to arse SAND, some fine Gravel, little Organic	es .			0	
									0	
	1								0	
5						<u> </u>				
		5/2.8	5-10	S2: Top 2': Gray trace Organics ( coarse SAND an	to brown, Silty CLAY, some fine Gravel, pieces of wood). Bottom 0.8': Black, fine to d fine GRAVEL.	•				:
									0	
	2								0	
						·			0	
10	<u> </u>	5/3.8	10-15		ry to brown, Silty CLAY, trace fine Gravel. fine to coarse SAND and fine GRAVEL.				0	
·										
	3								0	
									0	
4.			<del>                                     </del>		End of Boring 15'					
15 REMARKS:	I	1	I							<b>L</b>
NOTES:	2) WATER LI	EVEL READINGS	HAVE BEEN M/	ADE AT TIMES AI	NDARY BETWEEN SOIL TYPES; TRANSI	TUATIONS OF GRO		:		
CZI)	MAY OCCUR	DUE TO OTHER	R FACTORS THA	N THOSE PRESI	ENT AT THE TIME MEASUREMENTS WE	RE MADE.		BORING NO.	GZA-159J	

GZA GEO	DENVIRO	ONMENTAL 18TH FLOOR,	OF NEW	YORK	PROJECT	,	REPOR	T OF BORING NO.		
40 NINTH	AVENUE, 1	18TH FLOOR,	NEW YORK,	NY 10001	i. Park Edgewater				1 of 1	
ENGINEER	RS AND SCI	IENTISTS			45 River Rd Edgewater, NJ			FILE NO.	. 41.0161318.00 /	<u>!</u>
BORING CO.		Summit			BORING LOCATION			<del> </del>		
FOREMAN		Matt		•	GROUND SURFACE ELEV.		D/	ATUM		•
				-	DATE START		<del></del>	END 6/11/07		•
GZA ENGINEI	ER	A. Hough		-	MASS AND STREET	0/1007		END WING		<u>-</u>
SAMPLER: G	3eoprobe™ - 2	t" diameter, 60-inr	ch long, clear acr	tate liner, installe	ed with a hydraulic hammer.			. ,		
DEPTH		SAMPLE			SAMPLE DESCRIPTION	STRAT	1	EQUIPMENT	FIELD	R
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	8	BURMISTER CLASSIFICATION	DESCRI	PTION	INSTALLED	TESTING	K
		5/2	0-5	to brown, fine to	SPHALT and fine GRAVEL. Middle 0.9': Gray o medium SAND, little Silt. Bottom 0.6': Black o medium SAND, trace fine Gravel.					
	1									
	-									
6					Cibi Ci AV IIII for Consul	   				
		5,/2.6	5-10	Middle 1.4': Ligh GRAVEL, little (	lack to brown, Silty CLAY, little fine Grave). ht gray to black, fine to coarse SAND and fine Organics (pieces of wood). Bottom 0.7: adium SAND, some fine Gravel, little Silt, es					
i			1	1						
				1						
	2		<del>                                     </del>	1			į			ŀ
i		<b> </b>	†	1					ŀ	
ł			+	†						
ĺ	1	<b> </b>	+	1			-		1	
1		-	+	1						
10 —	┼		+		lack, fine to medium SAND and fine GRAVEL,	,				
		5/1.3	10-15	little Silt. Top 1.	.1': Gray, Silty CLAY, some fine Gravel.				1	
			+	4					1	1
ŀ				4		1				
	Ì			4						
	3		↓	_					-	
				_			1			
1				]		i	ŀ			
				1						
16	1		1	1	End of Boring 15'	<b>j</b>				
REMARKS:	4					<u>*</u>	***************************************			_
Pataburaka										
NOTES:	2) WATER	LEVEL READING	SS HAVE BEEN N	MADE AT TIMES	UNDARY BETWEEN SOIL TYPES; TRANSIT	UATIONS OF GR				
CZ\)	MAY OCCU	IR DUE 10 OTHE	RIPACIONS	AN INOGE FAL	SENT AT THE TIME MEASUREMENTS WER	E MADE.		BORING NO.	GZA-160	

GZA GE	DENVIRO	NMENTAL 18TH FLOOR,	OF NEW YORK,	YORK NY 10001	PROJECT i. Park Edgewater		REPORT OF B	ORING NO. GZA-1 SHEET 1 of 1		
					45 River Rd			FILE NO. 41,016	1318.00	
ENGINEER	RS AND SCI	ENTISTS			Edgewater, NJ		<u> </u>	CHKD BY	,	
BORING CO.		Summit			BORING LOCATION					
FOREMAN		Matt		-	GROUND SURFACE ELEV.	, ·,··	DATUM			
GZA ENGINE	ER	A. Hough		_	DATE START 6	5/11/07	DATE END	6/11/07		
								<del></del>		
	3eoprobe™ - 2		ch long, clear ace	tate liner, install	ed with a hydraulic hammer.	OTDATINA	EQUIP		ELD	R
DEPTH	SAMPLE	SAMPLE PEN/REC	DEPTH (FT)	, ا	SAMPLE DESCRIPTION URMISTER CLASSIFICATION	STRATUM DESCRIPTION	INSTA		TING	K
(FT)	NO	PENACO	DEFINITION	_	ORMIG ER OLIGGIFICATION	DE001 1.2				
	1		† <u>,                                    </u>		SPHALT. Middle 0.4': Fine GRAVEL, some				0	
í		5/2,1	0-5		black Sand. Bottom 1": Black fine to coarse to gray fine GRAVEL, little Sitt.				•	
		<u></u>	<u> </u>	•			ł			
				ł			1		0	
				1	İ		j			
	١.				I		1	1	0	
ĺ	1 1			1						
İ	}			1						
i	1		-	1			1			
	ł			-	l					}
	1		<u> </u>							1
6	<u> </u>		1	7 0 Ob B	and all all and an America	<u>~</u>				
i		5/4.5	5-10		lack to brown, Silty CLAY, some fine Gravel, wood pieces). Middle 0.3'; Soft pitch. Bottom	_	1			
			T		/ SILT, some fine Gravel.			ł	0	1
			<u> </u>	1						
•			<del> </del>	1			ł	1	0	
		<b> </b>	<del> </del>	-{	l		ļ		U	
	2	<u> </u>	<del></del>	4			ł			
Ì				4	•		l l		0	
		<u> </u>	l	]			ļ			
ļ				]			Į		0	
1			<b>-</b>	1	Ī		İ			
<b>.</b>	ļ		<del> </del>	┪				1	0	
10 —	<del>- </del> -		<del>                                     </del>		Gray, Silty CLAY, little fine Gravel. Bottom 1':				•	١.
1	1	5/2.1	10-15		parse SAND, some fine Gravel, little Silt.					1
ł			<del> </del>	4				i		
l	Ì			j			ŀ	1		
	ŀ		T	1			1			
•				1						
1	3			7			1		0	
				-			}		•	
1			<del></del>	-			1			
				4					0	
į	1			_j						
15	1				End of Boring 15'				0	
REMARKS:	4\ Material	very soft, went de	own with the weigh	aht of the probe						
TENENTY.	1) HIGH	Very son, were	VIII	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
}										
<u> </u>		<del> </del>			TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	TO SEA DE CEADUR	<del> </del>			-
NOTES:					DUNDARY BETWEEN SOIL TYPES; TRANSITI					
					AND UNDER CONDITIONS STATED; FLUCT		VATER IABLE			
CZN	MAY OCCI	UR DUE TO OTH	ER FACTORS TH	IAN THOSE PRE	SENT AT THE TIME MEASUREMENTS WER	É MADE.				
							IBO#	ring no.	160A	

10 NINTH A	VENUE, 1	NMENTAL 8TH FLOOR,	NEW YORK,	NY 10001 i. Park Edgewater 45 River Rd			REPORT OF BO	SHEET 1 of 1 FILE NO. 41.0161		_
NGINEERS	AND SOI	ENTISTS	<u> </u>	Edgewater, NJ				CHKD BY	-	_
ORING CO.		Summit		BORING LOCATION						
DREMAN		Matt		GROUND SURFACE ELEV.	·		DATUM			
ZA ENGINEEF	₹	A. Hough		DATE START	6/11/07		DATE END	6/11/07		
	TM 01	t diameter CO inc		tate liner, installed with a hydraulic hammer.				•		_
DEPTH	oprobe - 2	SAMPLE	an long, clear ace	SAMPLE DESCRIPTION	STRA	TUM	EQUIPME	NT FIEL	Q.	F
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	BURMISTER CLASSIFICATION	DESCRI	PTION	INSTALL	4	ING	ř
		5/3	0-5	S1: Top 1': ASPHALT. Middle 1.1': Black, fine to medium SAND, some fine Gravel, some Organics (pieces of wood). Bottom 0.9': Black rubbery material.				0		
	1							0		
5										
		5/2.9	5-10	S2: Black, fine to medium SAND and fine GRAVEL, trace Organics (wood pieces) (black rubbery material).				0		
								0		
	2									
						Z				   
10		5/1.7	10-15	Top 0.5': Back, fine to medium SAND and fine GRAVEL. Bottom 1.2': Brown, Silty CLAY, some fine Gravel.		_		0		
								0		
	3									
				End of Boring 15'						1
15 REMARKS:		1	1		<u> </u>		<u> </u>	<u> </u>		_

C74	CEOE	MIDOM	MERITAL	OE NEVAL	VORK		DOO IF AT	Spylates by		OOT OF	OPING NO. 674 40	
N . 44 1	A Commence			OF NEW YORK,	the second second		PROJECT i.Park Edgewate		, KEI	-UKI UF I	SORING NO. GZA-16 SHEET 1 of	5 Y Y
HAN DAM	III AVE	.10E, 1011	· FLOUR, I	10KN,			i.Park Edgewate 45 River Rd			erik ya 1917. Pangan	FILE NO. 41.0161	فالم فأستك بأرا
ENGIN	EERS A	ND SCIENT	TISTS				Edgewater, NJ				CHKD BY	
												0.52 (0.52)
BORING	CO.	Summit	<u> </u>				во	RING LOCATION		<u> </u>		
FOREMA	N.	Jeff			•		GROUND	SURFACE ELEV.			DATUM	
GZA EN	<b>.</b> 3.	M. Hayes				1		DATE START	6/7/07		DATE END 6/7/07	,
DRILLIN	G TYPE											
SAMPLE	R: UNLES	S OTHERWI	SE NOTED, S	AMPLER CONS	SISTS OF			GRO	DUNDWATER R	EADINGS		
A 2" SPL	IT SPOON	DRIVEN US	ING A 140 lb.	HAMMER FALL	NG 30 IN		DATE	TIME	WATER	CASING	STABILIZATIO	N TIME
							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3315\$15Wa			
				SING DRIVEN L	JSING					<del> </del>		
A 300 LE	HAMMER	R FALLING 24	IN.								<u> </u>	
DEDELL				MPLE		1	AMPLE DESCRIP	I DON	STRATI	na l	EQUIPMENT	R
DEPTH	FIELD	SAMPLE	PEN/REC	DEPTH (FT)	BLOWS/6"	-	MISTER CLASSIFI		DESCRIP	83 a.j., **	INSTALLED	K
(FT)	TESTING	NO	FEMALO	DEI HITT	JLOWGO		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		DLOOK!!		"NO!ALLO	
	Aug Nau		Albert market and	0-2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Air rig to 2' thro	ugh concrete slab.		33333333333			
						1				İ		-
		S1				]						
2.0		_				]						
-	0		24/12	2-4	10		nse, brown to blac					
		S2			9	JOAND, IRRE SIII	(slightly wet at bot	uoin)				
	0	32			11	]						
4.0					8	<u> </u>			$\blacksquare$			1
	0		24/12	4-6	18		ledium dense, brov some Silt. Bottom					1
		S3			11	dense, black fir	ne SAND, some Si					
4	0				9	pitch).			1	ŀ		
6.0					11		. h	OAND	ŀ			ı
l	0		11/10	6-8	10	some Silt.	a, brown, medium t	o coarse SANU,				1
		S4			50/5	-				l		
	0					4			ļ	l		
8.0	ļ					S5: Ton 4": Co	ncrete. Bottom 2":	Very dense		- 1		
1	0	l	24/6	8-10	10	black, medium	to coarse SAND (					
	-	S5			19	material).				- 1		
10.0	<del> </del>	İ			18	1				i		1
-	0		24/6	10-12	3	S6: Very dense	e, black, medium to	coarse SAND,		- 1		
		1			24	little fine Gavel	, trace Silt.			ļ		
1	0	S6			24	1						
12.0		1			17	]				1		
1 -	0		24/12	12-14	9		at. Bottom 10": Me					
		S7			8	trace Silt	to coarse SAND, I	ilue nne Gravel,		1		
	0	] "			4	1			]	1		
14.0		<u> </u>			2		· <u>·</u>	· · · · · · · · · · · · · · · · · · ·		]		
	GRANUL	AR SOILS	asing Surial	REMARKS:	1) Sample coll	lected from 2-4' f	or TAL metal analy	rsis.				
	BLOWS/	FT. DENSITY										
0-4	VER	YLOOSE										
4-10	: 1	OOSE										
10-30	MEDIL	JM DENSE		]								
30-50	<del></del>	Y DENSE										
		VE SOILS	<u> </u>									
<u> </u>		FT. CONSIST	TENCY									
1 ^{&lt;2}		RYSOFT		NOTES:			WILLIAM 00	W DETMER! 00"	TVDE0: 75***	ITION	V DE ODADUM	
2-4		SOFT		1			XIMATE BOUNDAI					
4-8	200	IUM STIFF	4. 医管线	1			E AT TIMES AND U					
8-15		STIFF		1	A INBLEMAT C	OCCUR DUE 10 C	THER FACTORS T	FIANT ITUGE PRES	PENIALINE III	MEASU	JEMENIO WEKE	
15-30		RY STIFF		MADE.						RA	RING NO. GZA-	162
>30		HARD	i i i i i i i i i i i i i i i i i i i	<u> </u>						BU	MINU NO. GZA:	174

				OF NEW YORK,		PROJECT (Park Edgewater	REP	ORT OF BORING NO. GZA-162 SHEET 2 of 2
ENGIN	IEERS A	ND SCIEN	пете	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		45 River Rd Edgewater, NJ		FILE NO. 41.0161318 CHKD BY
DRING		Summit	<u> </u>		350 350 360 30	BORING LOCATION	ON	
FOREM	AN -	Jeff				GROUND SURFACE ELE	<u></u>	DATUM
GZA EN	•	M. Hayes				DATE STA		DATE END 6/7/07
1	•			<del></del>				
	G TYPE	OT ITOM	SE NOTED S	PANDLED CONS	HETE OF		POLICIONAL TE O TE	ADINGS
1				SAMPLER CONS				
CASING	: UNLESS		E NOTED, CA	HAMMER FALLI SING DRIVEN L		DATE	WATER	CASING STABILIZATION TI
ĎEDTU.				AMPLE	, it james a de	SAMPLE DESCRIPTION	CTD ATT I	COMPANY I
DEPTH (FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6*	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUI	is de la de la Rice de Marie de la Marie de Marie de Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la Marie de la
	0		24/24	14-16	2	S8: Soft, peat.		2
	0	<b>S8</b>			1		ł	
	0				1		1	
16.0	0				2			
						End of Boring 16'		
1		{					1	
]		S9					-	
1	<b> </b>							
18.0	ļi							
		S10						
1		310					1	
20.0								
J - " -	-							
			ļ				1	
7		S11						
ı								1
22.0								
i •								l i
1								
1	<b> </b>	S12						
1								
24.0							1	
1								· · · · · · · · · · · · · · · · · · ·
			!				ŀ	
1		\$13					ł	
	-		<b> </b>			1		
26.0	-					1	İ	
	<b></b>		<u> </u>	ļ				
		S14	<b></b>					
			<u></u>				1	
28.0		Ī					1	
	GRANUL	AR SOILS	1.5	REMARKS:		•		
7 - 2 - m		T. DENSITY						
0.4		Y LOOSE	100	İ				
	* A							
4-10		DOSE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	[				
10-30		JM DENSE						
30-50	VEE	DENSE	The second second	1				
Majoga Kabas	COHESIN	Æ SOILS	euro e					
18 6 60	Sec. 1 1 1888	FT. CONSIST NY SOFT	minical an Arik	NOTES:			<del></del>	
1. 31 mg 1	and the second	aria aran bar	أنا مسمعا كث					
7 ( 24		soft .	Far and Ex		ON LINES REP	RESENT APPROXIMATE BOUNDARY BETWEEN SO	DIL TYPES; TRANSITI	ONS MAY BE GRADUAL.
4-8	MEDI	UM STIFF	Edig son in his believe to his joint the state of	2) WATER LEVE	L READINGS HA	IVE BEEN MADE AT TIMES AND UNDER CONDITIO	ONS STATED; FLUCT	UATIONS OF
8-15	5 ° 3 ' 2 ° 3 '	STIFE		GROUNDWATER	R TABLEMAY OC	CUR DUE TO OTHER FACTORS THAN THOSE PR	ESENT AT THE TIME	MEASUREMENTS WERE
		W DTICE	Si Taylor Lancon (1974) State Anna Anna Anna Anna Anna Anna Anna Ann	WADE.				
10-30	AN IVE	CT QUEEN		MADE.			İ	
>30	23.7	IARD	forth a second					BØRING NO. GZA-152

GZA GEC	DENVIRO	NMENTAL 18TH FLOOR,	OF NEW YORK	YORK NY 10001	PROJECT i. Park Edgewater		REPORT OF	BORING NO.	GZA-163	
40 141141111	AVENUL, 1	DITTI LOOKS	, Negr Lors	No leave	45 River Rd				41.0161318.00	0
ENGINEER	RS AND SCI	ENTISTS		• 1	Edgewater, NJ		* .	CHKD BY		<u></u>
SORING CO.		Summit		-	BORING LOCATION		· · · · · · · · · · · · · · · · · · ·	•		
FOREMAN		-		•	GROUND SURFACE ELEV.		DATUM	A		-
GZA ENGINEE		A. Hough	<del> </del>	•	DATE START 6	E/R/07	DATE END			-
				<u>-                                      </u>		WWV.				-
SAMPLER: G	eoprobe™ - 2°		ch long, clear ac	etate liner, instal	iled with a hydraulic hammer.					
DEPTH		SAMPLE	-		SAMPLE DESCRIPTION	STRATUM		PMENT	FIELD	R
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	1 5	SURMISTER CLASSIFICATION	DESCRIPTION	INST	ALLED	TESTING	к
	NO.	4/2.4	0-4		SPHALT and fine GRAVEL. Middle 1.4' and own to black, fine to coarse SAND, some fine				0	T
,	l .		Γ		It changing to 0.4': Black, Silty CLAY, little					
,	ĺ			fine Graves.	1				_	1
7	1		+	1	1				°	
2	1			4	Ī				[	1
; <b>!</b>	l		<u> </u>	]	Ī				7.2	
, ,	1		T	]						
, ,	1			1	1					
1	1	<b></b>	†	1						
, •	<del>                                     </del>	+	+		n to brown, fine to coarse SAND, some fine				İ	
, ,	1	4/2.8	4-8	Gravel, little Silt						ŀ
· '	1			_					1	
ı	1		l						0	-
6	1			1	1				İ	
,  —	2	<b>——</b>	1	1	]				1	
'	1	<del></del>	+	4					°	
i '			+	4						l
l '	1		ļ	_					0	
8'	l	<u> </u>		J		$\blacksquare$				2
		4/1.8	8-12	S3: Top 0.8': Br	irown, Clayey SILT, some fine Gravei (sheen om 1': Black, fine to coarse SAND and fine	I				
i .			1	GRAVEL.	m 1": Diack, line to come o cours and				1	
i '	j		+	1		,			İ	1
į .	}		+	4		I				
10	3	ļ	-	4		I			0	
1	Ì		<u></u>	_]		1			3.3	
l '		Γ	Τ			l			1.3	
1	İ		<del>                                     </del>	1		I			0	
l		<del>                                     </del>	+	1		1				
12 —	┼──	+	+	S4: Top 3.7': D	Park brown to black, fine to coarse SAND and	I	İ		٥	
l	1	4/4	12-16	fine GRAVEL.	Bottom 0.3': Gray, Silty CLAY, little fine	I			İ	
1	1		<u> </u>	Gravel (slight s	sheen).	I			0	
1					İ	I				
14				1	I	I	1			1
l '' —	<b>1</b> ⁴		1	1		I	1		1	
ĺ	1	-	<del> </del>	1	1	I				]
4		<del> </del>	+	4		I			0	1
1				4	1	I	ŀ			
16						l				<u>l</u> 3
REMARKS:	1) Sample cr	ollected from 0-2'	for TAL metals	enalysis			<del></del>			
j	• •	olleted from 7,5-8			nalysis					
		olleted from 15.5-			•					
İ	S) Salishio es	Allege House 19.5	10 101 1712 1110	no ununye						
<b> </b>										_
NOTES:	•				DUNDARY BETWEEN SOIL TYPES; TRANSIT					
_					AND UNDER CONDITIONS STATED; FLUCT		DWATER TABLE			
GZN	MAY OCCUI	R DUE TO OTHE	ER FACTORS TH	IAN THOSE PRE	ESENT AT THE TIME MEASUREMENTS WER	RE MADE.	<del></del>			
- W							lac	RING NO.	GZA-163	

NONECO			, NEW YORK		i. Park Edgewater 45 River Rd					2 of 2 41.0161318.00	_
NONNEEN	S AND SCI	ENTISTS			Edgewater, NJ	<del> </del>			CHKD BY		
ORING CO.		Summit			BORING LOCATION						_
OREMAN				•	GROUND SURFACE ELEV.			DATUM			_
ZA ENGINE	ER	A. Hough		_	DATE START	6/8/07		DATE END	6/8/07		
	. 74 -										-
AMPLER: G	eoprobe''' - 2	" diameter, 48-in: SAMPLE	ch long, clear ac	etate liner, installed with a h	DESCRIPTION	STRAT	DIM	EQUIPM	ENT	FIELD	
(FT)	SAMPLE	PEN/REC	DEPTH (FT)	1	CLASSIFICATION	DESCRI		INSTAL		TESTING	
	NO			S5: Gray, Silty CLAY, little	See Convel						Ļ
		4/0.2	16-20	GS. Gray, Gitty CEAT, ittle	mie Gravei.						
		<u>L</u>	<u></u>	<u> </u>							
18	5			j							
	]		]	1							ı
				Ì							1
				1							l
20			<u> </u>	1						۰	
			1	End o	of Boring 20'	†					
	ĺ		<del>                                     </del>								ı
			1	†		Ì					١
			1	1							
22	6		<u> </u>	-							l
			<u> </u>	1						1	l
			<u> </u>	4						ł	l
	ļ			]						·	l
24				]						}	l
				]							ŀ
										ŀ	l
				1							ı
26	l <u>.</u>			]		ļ					ı
	7		i i	1							1
	Ī			1							
			<del>                                     </del>	1							1
			+	-	`						
²⁸ —		<del>                                     </del>	<del>                                     </del>	†		i					
		<del> </del>	<del> </del>	-						ŀ	ļ
	1		<del> </del>	-							
		ļ	ļ	-						İ	
30	8	<u> </u>	<b></b>								
			<u> </u>	-							ľ
				1							ı
	İ			<u> </u>							l

440 NI	ITH AVI		HTLOOR,	OF NEW NEW YORK			45 River	PROJECT 41,0161318.09 Paik Edgewater Road, Edgewater No	aw Jersey	REPOR	OF BOR	NG NO SHEET ILE NO HKD BY	MW-51A 1 41.061318.00 MM	
BORMS			Summit Drillin	9		-		BORING LOCATION ID SURFACE ELEV.			DATUM			-
FOREMA GZA EN(			Eugen Cela			•	GROUN	DATE START			TE END	6/14/06		-
A 2" SPL CASING:	IT SPOOI	N DRIVEN US	SING A 140 lb. SE NOTED, CA	SAMPLER CON HAMMER FALI ASING DRIVEN	LING 30 IN		DATÉ**	TME	GROUNDWATER	READING	Brown and a second	STABILIZ	ATIEN TIME	
DEPTH			S/	MPLE	***********	SA	MPLE DESCRI	RTION	STRATUM.	4 -4 44	EQUIPME	NT .	PIELD: "	R
JF37	PLOWS	SAMPLE NO	PENÆC	DEPTH (FT)	BLOWS/67		ÍSTER CLASSI	FICATION	DESCRIPTIO	NIIII -	INSTALLI	Ď	TESTING	÷К
		S1							FILL		CAP	<b>J</b>		
2.0											7 8 6 6			
		S2			· · · · · · · · · · · · · · · · · · ·						ASING			
4.0		-												
			48/4	5-7	6	Medium dense br			<b>▼</b>				0 ppm	
6.0		<b>S3</b>			6 5	medium gravel (c	oncrete fragmen	ts).					. , ,	
-			48/4	7- <del>9</del>	5 8	Medium dense br	nun eand with a	little fraction of fine					<b>A</b>	
0		\$4	40/4	7-9	6	gravel (concrete f		natio recognition file			Ħ		0 ppm	
8.0					1						13 FEET			
		S5	48/0	9-11	0	No recovery					SLOT SCREEN		0 ppm	
10.0					0	]					CREE			
_		S6	48/1	11-13	1 WHO	Soft brown/black			CLAY				0 ppm	
12.0						fragments.	,, , , , , , , , , , , , , , , , , , , ,							
-		<b>S</b> 7	48/48	13-15	WHO	Soft brown/black fraction of fine sa		clay with a little					0 ppm	
14.0 _				1 1		End of boring at 1	4ft							1.
_		S8										ļ		
16		ł		<u>.                                    </u>		-								
10	GRANU	AR SOILS		Remarks:	l			<del></del>	<del> </del>					
* * * * * *	BLOWS	FT.DENSITY	Maril Carlos	1- Continues so 2- End of boring		tred at 5 ft because	of the concrete	layer founded at the	depth 2-4ft.					
4-10 10-30 60-60	and burg	Y LOOSE OOSE JM DENSE JENSE		2- End of burning	y at 141.									
	* 7 ##	WE SOILS IFT CONSIST	ENCY											
42	VE	RY SOFT		NOTES:	<u> </u>									
	e de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de l	SOFT		-				Y BETWEEN SOIL TY IDER CONDITIONS S			DUAL.			
8-15	19 <b>99</b>	STIPF						HAN THOSE PRESEN			WERE			
15-30 >30	ra Vei	RY STOFF HARD		MADE.								BORING	NÖ: MW-61/A	争吸引

440 NII	IVA HTI		HFLOOR, I	OF NEW SEW YORK			45 Rivo	PROJECT 41.0161918.00° Perk Eddewater Road, Eddewater Ne	vv Jersey orb		ORTOE	ORING NO SHEET FLE NO CHKD BY	MW-52A 1 41,061318:00 MH	
в(	co.		Summit Drillin	9				BORING LOCATION	See Exploration	Location F	ian			_
FOREMA	N		Steve Yotcosi	d			GROU	ND SURFACE ELEV.			DATU	м		_
GZA EN	SINEER		Eugen Cela					DATE START	6/21/06		DATE EN	D 6/21/06		_
										N ORDER DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTO				
A 2" SPL	IT SPOOI	N DRIVEN US	SING A 140 lb.	SAMPLER CON HAMMER FALI	LING 30 IN		DATE:	TIME	GROUNDWAT WATER =	ERREAD CASING	NGS	STABIL	ZATION TIME	
i		S OTHERWIS R FALLING 2		ASING DRIVEN	USING									
CASING														n windows
DEPTH	and Character and an ended		Company of the Company of the Company	MPLE		State to the street,	AMPLE DESCR	IPTION	STRATU	4	Sanda Burk	MENT	FIELD	R
(FT)	BLOW5	SAMPLE NO	PEN/REC	DEPTH(ET)	BLOWS/6"	BUR	MISTER CLASS	IFICATION	DESCRIPT	ON	INST	YHED	TESTING	K
S. A. Marie						Air rotary at 6'			FILL		CA	P		1.
										i	1.3	M	İ	
2.0										ŀ	5	A		
									CONCRE.	TE	Ž.			
									İ					
										1		3		
4.0									Depth of Water	Table		3	İ	
										1		3		
										ľ	E	3	Ì	
									ļ	ŀ		3		
6.0												3		
			48/0		WHO	No recovery						=	0 ppm	1 1
		S1			WHO	ļ			i					1 1
					who				ŀ	I		3	1	
					WHO						ם		ļ	
			48/0	8-10	1	No recovery			l		13 FEET SLOT		0.5 ppm	
:		\$2		9-11	1	ļ			ŀ	ŀ	5			
					2	Į				į	180			
10.0					1	Caff brown faloa	- CI AV 5410	dium Sand, some fine			SCREEN			
		İ			1	Gravel.	K CLAT, Illue me	dium Sand, some me	1		L		0.5 ppm	
		S3	48/1	11-13	11				CLAY	İ		3	ŀ	
					1 1	1				Ī		=		1 1
12.0 -			<del></del>		WHO	Soft brown/blac	k CLAY, little me	dium Sand	Į.			3		
l .		1	<b>—</b>	40.17	WHO WHO					- 1		∃	0.6 ppm	
		S4	48/48	13-15	WHO	1						∃∥		
44.0	-	ł	<del>                                     </del>		WHO						E	∄	}	
14.0					WHO	Soft brown/blac	k CLAY, little fine	Sand.		1	E	3	05	
	<del> </del>	Ì			WHO	1			1		E	∃	0.5 ppm	
	$\vdash$	S5	<u> </u>	-	WHO	1			1	- 1	E	∄		
16.D	<b>—</b>	1			WHO	1			}	- 1	E	=		2.
10.0	GRANII	AR SOILS				ı			1					,=-
the state of	DI MINE	FT DENSIT		Remarks:										
2		YLOOSE			oil screening star	ted at 6 ft becau	se of the concrete	e layer founded at the	depth 3-5ft.					
4-10	in man with the	OOSE		2- End of boring	g at 16ft.									
and the state of the	88K 21° 662	UM DENSE	All Control											
	him harring	ENSE												
	000000000	VE SOLS												
-	BLOWS	FT. CONSIS	TENCY											
√2	VE	SY SOFT		NOTES:										
24	178-101477 141-1014	SOFT		1	ON LINES REPI	RESENT APPROX	KIMATE BOUNDA	RY BETWEEN SOIL TY	PES; TRANSITION	IS MAY BE	GRADUAL			
	MED	IUM STIFF		1				NDER CONDITIONS S						
		STIEP		l '				THAN THOSE PRESEN				E		
15-36	VE	RYSTIFF		MADE.								<u>.</u>		
>30		HARD										BORIN	G NO.MW-52A	

	CO. Summit Drilling  NAN Steve Yotcoski							PODING LOCATION	Saa Exploration	Legation Plan	.6%.			VO XXX
		-				-	CDOU	BORING LOCATION			DATUM			-
FOREMA		-	·	g		•	GROU	ND SURFACE ELEV.			TE END	671 MG		-
SZA EN	SINEER	-	Eugen Cela			•		DATE START	6/21/06		IE END	6/21/06		•
				SAMPLER CON					GROUNDWAT	ER READING	<b>S</b>			
				HAMMER FAL ASING DRIVEN			DATE	TME	WATER	CASING		STABILIZ	ATION TIME	90 I
		R FALLING 2		701110 011111	5015									
CASING											1			
DEPTH	CASING	y - your sy	S/	MPLE		· · · · · · · · · · · · · · · · · · ·	AMPLE DESCR	PTION	4 STRATU	4 1	EQUIPME		FIBLD	. R
俩	BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	:BLOWS/6"	BUR	MISTER CLASS	FICATION	DESCRIBT	DN	INSTALL	₽ ( )	TESTING .	٠K.
						Air rotary to 6'			FILL		CAP	<b>!</b>		1.
						ł					12			
2.0						ł			į	- 1	š			
2.0						1			CONCRE	TE	1 P			
										1	8			
						]				`				
4.0						]								
						ł			<u> </u>	İ				
						ł								•
6.0									]					
- 0.0			48/0		WHO	No recovery							0 ppm	
			1010		WHO	1							· , , , , , , , , , , , , , , , , , , ,	
		S1			WHO	]								
					WHO					1	ಪ			
			48/0	8-10	1	No recovery					13 FEET		0.5 ppm	
		S2		9-11	1	-					SI_OT			
40.0					1	-					SCREEN			
10.0					1	Soft brown/black	k CLAY, medium	Sand, some Gravel.		ŀ	m m		0.5 ppm	
			48/1	11-13	1				CLAY				о.о рри	
		\$3			1									
12.0		1			WHO									
_					WHO	Soft brown/black	k CLAY, fine San	d.	İ				0.6 ppm	
		S4	48/48	13-15	WHO	1								
l				ļ	WHO	1			}	1				
14.0					WHO	Soft brown/black	k CLAY, little frac	tion of Sand.					0.5	
	<del> </del>	1	<b>-</b>		WHO WHO	1	. ,						0.5 ppm	
	<del>                                     </del>	S5		<u> </u>	WHO	1			İ					
16.0					WHO	1			<u> </u>			<u> </u>		2.
44	ĠRANU	LAR SOILS												
علىند	BLOWS	FT DENSITY	19 4 1 1	Remarks:										
0. <b>0&gt;4</b> gym	VER	y loose		1		tred at 6 ft becaus	se of the concrete	e layer founded at the	depth 3-5ft.					
4-10		OOSE		2- End of boring	gat ron.									
10-30	MEDI	UM DENSE	g en											
30-50	acies	ENSE .												
	alan Maria (1862)	IVE SOILS IFT. CONSIS	FNOY											
. 4		CICION NO.	BALL TO S	<del>}</del>										
≪2	9129127200	RY SOFT		NOTES:										
* 4	VE	RY SOFT SOFT			TION LINES REP	RESENT APPROX	(IMATE BOUNDA	RY BETWEEN SOIL TY	PES; TRANSITION	IS MAY BE GR	ADUAL.			
89	VE	786 a rain a said		1) STRATIFICAT				RY BETWEEN SOIL TY.			ADUAL.			į
	VE	SOFT		1) STRATIFICAT 2) WATER LEVI	EL READINGS H	AVE BEEN MADE	AT TIMES AND U		TATED; FLUCTUA	TIONS OF				

VGINE	- 3 22°	ID SCIEM	FISTS Summit Drilling	9		Edgewater New Jerse BORING LOCATION	See Exploration Loca	ation Plan	5	HKD BY		1969 1968 1968
REMA	N		John Murtha			GROUND SURFACE ELEV.			MUTAC			
A ENG	INEER		M. Hayes			DATE START	10/18/06	DAT	E END		10/18/06	
			05 HOTED 0	ALIBI ED CONO	ICTO OF	in .	GROLINDWAT	en de se	lives .			
" SPLI	T SPOON	DRIVEN US	ING A 140 lb. i	AMPLER CONS	NG 30 IN	DAJE IME	WATER CAS	iNG		<b>57/</b>	E LIZATION TII	<b>G</b>
		_	-	SING DRIVEN U	SING						<del></del>	
SING		FALLING 24	· IFN.									
40.00	CAŞING			AND AND DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PRO		SAMPLE DESCRIPTION	STRATUM		QUIPME		FIELD	R
Fŋ:	BLOWS	SAMPLE NO	PENREC	DEPTH (FT)	BLOWS/6"	BURMISTER CLASSIFICATION	DESCRIPTION		NSTALL	D,	TESTING	K
	eddam X Ard		24/12	0-2	8	Brown-gray f-c SAND, some Silt, trace f Gravel			CAP		o	
		64			25						0	
		S1			45		FILL	1				ļ
2.0					43				Š			
٦			24/8	2-4	45	Black f-c SAND and hard pitch material changing					1.8	ł
		S2			25	after 4" brown-black f-c SAND, trace Silt.				2'	2.3	<b>[</b>
					15				Ħ	:	4.3	1
1.0					20							1
			24/12	4-6	15	Gray m-c SAND, some f Gravel, little Silt	1		Ħ		18.5	•
		S3			9	changing after 8" to Black f-c SAND (hard pitch).		ļ	Ħ		4.2	
					4							2
3.0					2							
			24/24	6-8	5	Gray-brown SILTY CLAY, changing after	1				7.4	1
		S4			9	1' to Black f-c SAND and hard pitch material.					28.8	
					8 7						26.8 24.4	
3.0			045	0.40					置		8.6	
			24/6	8-10	11	Geotextile fabric with pitch material.					0.0	
		S5			5							
0.0		:			15		1					
-			24/4	10-12	15	Black f-c SAND, little Silt and hard pitch.	1				0.4	l
					11	,						
		S6			4				Ħ			
2.0 _					2							
			24/18	12-14	1	Gray SILTY CLAY (organic material, slight	SILTY CLAY				0	
		<b>S7</b>			1	black staining).			Ħ		15.5	
					_1							
4.0			<u></u>		11			1				l
			24/8	14-16	6	Brown SILT.		1	H		0	
		<b>S</b> 8	<u> </u>		6	1						
					3	{				4.00		
7272	COAM	ADENIE		REMARKS:	3	<u> </u>	I			16'	J	3, 4
		AT DENSITY		KEWAKKS.								
0-4	YER	YLOOSE		1. Sample take	n at 3,5-4' at 8:4	16 for PCBs.						
1-10		OOSE	**************************************	2. Sample take	n at 5-6' at 8:57	for PCBs.						
0-30	MEDI	IM DENSE				10:13 for PCBs.						
Ø-50	1	DENSE		4. End of boring								
70	COHESI	VE SOILS	W. 1989									
	BLOWS	FT. CONSIST	ENCY									
,	, Vei	ty soft		NOTES:								
2-4		SOFT		1		RESENT APPROXIMATE BOUNDARY BETWEEN SOIL			GRADUAI	-		
	ئىكىسى ب	de la company	6.90	IN WATER LEVE	DEADINGS H	AVE BEEN MADE AT TIMES AND UNDER CONDITIONS	STATED FLUCTUAT	ONS OF				
4-8	MED	UMANIFE	***	Z) WATER LEVE	E READINGS II	ATE DEEM MADE AT THREE AND GROEN CONDITIONS	01/11/20,1/20010/11	0.13 0.				

**************************************	~1~10a1~1.	91.48. * S. * . * . * . * . * . * . * . * . *	7, 1 and 3 ha 68 . T M	TO)F*NEW!	Molekkara.			PROJECTA		PEPORTO	E BORING N	D. MW-55	
40 NII	ITH AVI	INUE, 48T	H FLOOR	NEW YORK	NY 10001		135 AN	Lpark Edgeweter 45 River Road	Mar Jeves (		SHEE FILE N	T 1 bi 1 0. 41.0161318.0	
NCIN	EERS A	ND SÇIEN	TISTS				i ya E	igewater New Jer:	sey		CHKDE	A DM	
	co.		Summit Drillin	g					See Exploration Lo				_
OREMA	N.	-	John Murtha				GROUND	SURFACE ELEV.		DAT			-
ZA EN	SINEER	-	M. Hayes and	D. Salemo				DATE START	10/11/06	DATE E		10/11/06	-
				SAMPLER CON			DATE	TIME	GROUNDWAT	R FEADINGS CASING	STAB	IUZATION TIME!	
ASING	UNLESS	OTHERWIS	E NOTED. CA	ASING DRIVEN	USING								<u> </u>
		R FALLING 24											
CASING	SIZE:												LOS MANUSCOS
	CASING			AMPLE		s, s	AMPLE DESCRIE	TION	STRAJUM		UIPMENT	FIELD	R
(FT)	HLOWS	SAMPLE NO	PENIREC	DEPTH (FT)	BLOWS/6"	BUK	MISTER CLASSIF	KAIKN	DESCRIPTIO		STALLED	TESTING	K
						HSA to 12'.					CAP 2'		
		S1				1			ļ		- 1		
2.0						1					8		
_						1							
		<b>S</b> 2											
		52							_				
4.0													
		S3											
						1					Ž		1
						-							
						1					<del>-</del>		
	-	S4				-					4		
				<del> </del>		-			:		2		
8.0						ł					對	-	
			<u></u>	<del> </del>	<del> </del>	1							
		<b>S</b> 5	<b></b> -			1							
10.0				<b></b>	<u> </u>	1							1
-						1							
		S6											
12.0											12'		L
_						EOB @ 12'.							
		S7				4							
	<u> </u>												
14.0					<u> </u>								丄
		AR SOILS FT. DENSITY		REMARKS:									
04	7-00-00 G	YLOOSE		Developed ~15	gallons (well ke	pt going dry)							
4-10		OOSE											
10-30	327	JM DENSE											
30-50		DENSE											
	COHES	VE SOILS:											
	BLOWS	FT. CONSIS	TENCY		<u></u>								
	VE	RY SOFT		NOTES:									
2-4	reily Maira	SOFT							TYPES; TRANSITIO		DUAL.		
4-8	MED	IUM STIFF							S STATED; FLUCTU				
8-15		STIFF		GROUNDWATE	R TABLEMAY O	CCUR DUE TO	OTHER FACTORS	THAN THOSE PRES	SENT AT THE TIME N	MEASUREMENTS	WERE		
18-30	1.0334	RY STIFF		MADE.							Z.		( <u>3</u> ( 3 )
>30	00000	HARD	(NO. : . NO. OF								BOR	ING NO. MW 55	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Z ~ 1 - 41 5:27	i me a Xma	Tables Tables	2 3 mail 10 to a 27 10 10 10	To See and Stand Stand	V 5 m 7 m 3 7 m					Property and the			
440 NII	ITH AVI		H FLOOR, I	OF NEW NEW YORK,			A second commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the comme	PROJECT i park Edgewater 45 River Road Igeweler New Jere				1 of 1 41 0164618 00	10.2
<del></del> /			Se	-			1 60°	ORING LOCATION		anation Dian			
BO. FOREMA	JU. N		Summit Drilling Denis Crayon	·		•		SURFACE ELEV.			DATUM	····	•
GZA ENG		•	D. Salerno			•	000	DATE START			E END	10/13/06	•
				AMPLER CONS			DATE	TIME	GROUNE WATER	CASING	PINGS ST	ABILIZATION T	ME
O A GINIO		OTHERMS	E NOTED CA	CINC DONEN	icine					/ - II III		14	
ł		R FALLING 24		SING DRIVEN (	Jaine		<b></b>						
CASING		( I ACEINO E	T 124.										
DEPTH				MPLE	2 <b>46</b> 8 3 4 7 1		AMPLE DESCRIP	TION	STRATUN		EQUIPMENT	FIELD	·, R
(FT)	BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT).	BLOWS/6"	BURI	VISTER CLASSIF	ICATION	DESCRIPTION	ON :	INSTALLED	TESTING	<b>, ,</b>
			20/9	0-2	10	6" asphalt.						0	
		S1			12	1						0 .	
2.0					15 100/2	1							
			5/0	2-4	100/5	HSA to 4'.			FILL				
		S2						•		ļ			
						ł							
4.0			50	4-5	100/5	CBAVEL com	ne c Sand (concre	o ond wood)					
			5/3	4-5	100/5	HSA to 5'.	ie c sand (concre	e and wood)					
		S3	0/0	5-7	100/0	EOB @ 5' (refu	sal on concrete).						1
6.0						]							
						ļ							<u>:</u>
						<del> </del>							
8.0					ļ	1							
-						1							
						]							
l						1							
10.0	ļ				<u> </u>	-							
ŀ	<b></b> -					1							
						1							
12.0						1							
						]							
						1			}				
	<b> </b>	•				<b>.</b>							
14.0	GRANU	AR SOILS	1	REMARKS:	<u></u>	<u> </u>	<del> </del>		<u> </u>			<u> </u>	L
11	BLOWS	FT. DENSITY	147.										
0-4	VER	YLOOSE		1. Refusal on o	concrete at 5'. N	Noved boring loca	ation east approxi	nately 4' to try for b	etter recovery.				
4-10		OOSE											
10-30	n ghairi	UM DENSE											•
36-50	COHES	DENSE. VE SOILS	TEN.										
	BLOWS	FT. CONSIS	TENCY :				<del></del>				<del></del>		
2	VÉ	RYSOFT		NOTES:	PALL 1 11 11 11 11 11 11 11 11 11 11 11 11		VIB44777 DO:	W BER	D/050 T04110		D40141		
	1	SOFT						RY BETWEEN SOIL			KADUAL.		
9.45	MEO	IUM STIFF	1					NDER CONDITIONS THAN THOSE PRES			NTS WERE		
15-30	Mari	RYSTIFF		MADE.	AN INDEE MATE	JOUR DUE TO	J.II.EN FROTORS	HOGE FREE	VERY AT THE TRUE		TIENE		
>30	and and	HARD I									BORIN	g NO. GZA-97/I	MW-56A

	named the same	Maria Manuschi and	Main and the same commender.	Market and the second second			(T.A.
	co.	-	Summit Drillin			BORING LOCATION See Exploration Location Plan	
OREMA		•	Denis Crayon			GROUND SURFACE ELEV. DATUM	
SZA EN	SINEER	_	D. Salemo			DATE START 10/17/06 DATE END 10/17/06	
2" SPL CASING	IT SPOOM	I DRIVEN US	ING A 140 lb. E NOTED, CA	SAMPLER CON: HAMMER FALL ASING DRIVEN I	NG 30 IN	GROUNDWATER READINGS  DATE TIME WATER DASING STABILIZATION TIME	
A 300 LE CASING		R FALLING 24	IN.				
and the second	CASING		S/	WPLE .		SAMPLE DESCRIPTION STRATUMENT EQUIPMENT FIELD	R
(FT)	BLOWS	SAMPLE NO	PENÆEC	DEPTH (FT)	BLOW8/6*	EURMISTER CLASSIFICATION DESCRIPTION INSTALLED TESTING	×
			24/12	0-2	4	Brown f-m SAND, little Silt	1
		S1			5	(2" hard pitch at top)	
					15	1 1 1	
2.0					18		
			10/9	2-4	18	Black m-c SAND, trace f Gravel	
		S2			50/4	(slight sheen and odor)	
4.0						(Hard pitch in bottom 3")  HSA to 4'.	
			10/8	4-6	28	Brown f-m SAND (brick and concrete)	,
		20			50/4	(concrete in bottom 6")	
		S3				Refusal at 5'.	
6.0							
			·-··				
		S4					
						4	
8.0		-				-	
						-	
		S5				1 1 1	
10.0						1 1 1	
-							
		S6					
12.0							
				<u> </u>		-	
	<b> </b>	S7					
14.0				<u> </u>		-	
,4.0	GRANUI	AR SOILS		REMARKS:			
		FT. DENSITY					
0-4		Y LOCIS <b>E</b>		1. Sample take	n at 0-2' at 10:1	15 for PP metals.	
4-10	L	oose		2. Sample take	at 4-4.5' at 10	0:35 for PP metals.	
t <b>o-3</b> 0 °	MEDI	JM DENSE					
30-50		ENSE	94				
4.0		VE SOILS FT. CONSIST					
	VE	TY SOFT		NOTES:			
24		SOFT		1) STRATIFICAT	ON LINES REPI	RESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.	
4-8	MED	UM STIFF		2) WATER LEVE	L READINGS HA	AVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF	
a.46	4	STIFE	1 3 4 7 3				
March 1	2. 23. 44	and and a	A HAGE	GROUNDWATE	R TABLEMAY O	CCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE	

Tan Day and Select	o Y and o Y and	WEDSENTAR'S	and the second to be	waire limile	NA SOLVENIA							
				OF NEW NEW YORK,	NY 10001			PROJECT i park Edgewater			OF BORING NO	MVV 56 T 1 of 1
								45 River Road		3 4 70	FILE NO	
ENGR	EKS A	NO acië	rjsis -		***		No.	gewater New Jert	96 <b>V</b>	1	СНКОВ	( DW
воі.	<b>c</b> o.		Summit Drillin	ng		•		RING LOCATION			- A-T-111-	
FOREMA GZA ENG			John Murtha  D. Salemo				GROUND	SURFACE ELEV. DATE START			DATUM TE END	10/24/06
OZA EN	SINCLIN		D. Galerio			•		200201740	1012-1100	· · · ·		7024700
SAMPLE	R: UNLE	SS OTHERW	ISE NOTED,	SAMPLER CON	SISTS OF		A Tree		GROUNDWA	TER READING	S	
A 2" SPL	IT SPOO	N DRIVEN US	SING A 140 lb.	. HAMMER FALL	ING 30 IN		DATE	TIME	WATER	CASING		IZATION TIME
		R FALLING 2		ASING DRIVEN	USING				[			
CASING												
1	CASING		. Frank	AMPLE	BLOWS/6		MPLE DESCRIP		STRATU DESCRIPT		EQUIPMENT	FIELD
(FT)	BLOWS	SAMPLE NO	PENREC	DEPTH (FT)	BLUWSIE	BURN	MISTER CLASSIFI	CAIRUN	DESCRIP	IUN I	INSTALLED	TESTING
1						Air rotary to 15'					CAP	
l											2	
2.	<u> </u>		<u> </u>									
2.0											4	
									]		8	
4.0												
										İ		
				1						1		
											2	
4				,								
		1										
		1									2	
8.0												
_												
		[										
i		•										
10.0			<del> </del>			Ė						
	ļ	1		<u> </u>								
		1										
12.0		1										
				<u> </u>						Ì		}
		4	<u></u>	<u> </u>	<u> </u>							
14.0			<u> </u>		<u> </u>							1
45.0	<u> </u>	-		ļ			•				15′	
15.0	GRANU	LAR SOILS		REMARKS:		<u> </u>			<u> </u>		<u> </u>	<u> </u>
0.4	BLOWE	FT. DENSIT	1		1. EOB @15'.							
4-10		OOSE						· ·				
10-30 30-5 <u>0</u>	er-6888888	UM DENSE DENSE	10-7									
	COHES	IVE SOILS /#T. CONSIS	i sale V									
42	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	(H) CONSIS RYSOFT	I ENUT		<del> </del>					<del></del>		
2-4 4-8	MET	SOFT IUM STIFF					XIMATE BOUNDAF AT TIMES AND U				GRADUAL.	
8.45		SUFF		GROUNDWATE			THER FACTORS T				NTS WERE	
15-30 ->30	VE	RY STIFF HARD		MADE.							BORUN	IG NO: MW-56

GZA 440 NII	SEOE VTH AV	NVIRON Enue, 181	MENTAL HFLOOR	OF NEW NEW YORK	YORK NY 10001			PROJECT Lpark Edgewater 45 River Road			ORT OF BO		GZA-129/N Lot (1 41.016131)	""。
ENGIN	EERS A	IND SCIEN	Tišts - >		erte i		E	lgewater New Jer	sey			CHKD-BY	DW	
	co.		Summit Drillin	g			BO	RING LOCATION	See Exploration	ocation I	Plan			
FOREMA	N.		Denis Crayon	<u> </u>		•	GROUND	SURFACE ELEV.			DATUM			_
GZA EN	SINEER	,	M. Hayes and	I D. Salemo		-		DATE START	10/13/06		DATE END		10/13/06	<u> </u>
				SAMPLER CON			DATE	TIME:	GACTINIDAVA	TER HE	DINGS	STABIL	ZATIÓN TIN	E
													****	
		S OTHERWIS R FALLING 2		ASING DRIVEN	JSING									
CASING		R FALLING 2	7 114.											
DEPTH	CASING			Company and Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Co			MPLE DESCRIP		STRATU		EQUIPA	H 300 / 2 2	FIELD	√ R
m,	BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BURM	ISTER CLASSIF	CATION	- DESCRIPTI	ON .	INSTAL	LED:	TESTIN	3 K
identificação de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución						Vacuum excava	ted to 5'.							
		]								·				
						}								
2.0						j				,				
										ŀ				
						<u> </u>								
		!							<u>*</u>					
4.0										- 1			l	
	ļ	-	<b></b>							[			[	
	<u> </u>	S1		<u> </u>		-				1				
		1	24/6	5-7	9	1	D, some Silt, little	f Gravel					0	2
6.0		<del> </del>			7	(concrete)				1			ļ	3
	<del> </del>	ł		<u> </u>	5	-				1			1	
	<u> </u>	S2			8					1			İ	
		1	14/3	7-9	5 9	Black m-c SANI	), little Silt trace f	Gravel		ŀ			0	
8.0					100/2	Refusal at 8.5'.			ĺ	ľ			l	
		1			100/2	EOB @ 8.5'.								
1	$\vdash$					200 80.0.			1	1			1	
10.0	<del></del>	1	<b> </b>	<u> </u>		1				1			İ	
-		·		<u> </u>		1				ŀ			ŀ	
1						1			ŀ					
		1				1				ŀ				
12.0		1				1							İ	
-						]								
ļ		]				]								
l		]				]				Ì				
14.0														
2 800 2		LAR SOILS VET DENSITY		REMARKS:										
	BLOVIS	WEN DENSIN			. shell through oh	atauatian but nat a	able to							
	VE	(T LUUSE	411			struction but not a	ible to.							
4-10		.005E		d i		25 for PP metals.								
10-30	MEDI	UM DENSE		3. Water table	observed at 5-5	.5'.								
30-50	COVE	DENSE IVE SOILS												
e salar	BLOWS	VFT.CONSIS	TENCY											
	0VE	RÝ SOFT		NOTES:										
24	24.7 B	SOFT		1	ON LINES REP	RESENT APPROX	IMATE BOUNDAR	Y BETWEEN SOIL	TYPES; TRANSITI	ONS MAY	BE GRADUAI	L.		
4.0	ME	DILM STIEF		·]				IDER CONDITIONS						
8-15		STIFF						HAN THOSE PRES				RE		
16.20	· A	EV STIEE		MADE.				moe i ne						
>30		RY STIFF HARD										BORIN	a no. mw a	7A

GZA	elegele	NVIRON	WENTAL	OF NEW	YORK .					#.∴ REI	PORT OF BOI	ZING NO.	GZA-129JMW	-57 <b>6</b>
440 NII ENGIN	ITHAV ERS/	ENUE, 18T IND SCIEN	H FLÓÓR. TISTS: -	NEW YORK	NY 10001.			i park Edgewater 45 River Road gewater New Jer	en en en en en en en en en en en en en e			-SHEET FILE NO. OHKO BY	1 of 1 44 016 (318 0 DW	0
	CO.		2 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				TO!	INC LOCATION	Can Frankisa		llee	<u> </u>		
FOREMA		•	Summit Drillin Denis Crayon			-		SURFACE ELEV.	See Exploration	Location F	DATUM			-
GZA EN		•	D. Salemo			-		DATE START		<del></del>	DATE END		10/17/06	- -
SAMPLE	R: UNLE	SS OTHERW	ISE NOTED,	SAMPLER CON	SISTS OF		\$40 Miles	40.00	GROUNDWA	TER REA	DINGS			
				HAMMER FALL			DATE	TIME	WATER	CASING		STABILI	ZATIÓN TIME	
A 300 LE	НАММЕ	S OTHERWIS R FALLING 24		ASING DRIVEN I	USING									
CASING DEPTH	CASING	A STATE OF THE	· ·	AMPLE.		¢Δ	L MPLE DESCRIPT	ioni.	A SECTION OF	A 15.5	EQUIPM	CKT of the	DEFR	
F	BLOWS	SAMPLE NO	PENIREC	DEPTH (FT)	BLOWS/6"	BURM	ISTER CLASSIFI	TATION	DESCRIPT	ON	INSTALI	.ED	TESTING	k
			24/9.5	0-2	35	Brown m-c SAN	D, little Silt, trace f	Gravel						1
		S1			33	(concrete botton	n 2")		İ					
					32									
2.0			0447	2.4	19			<b>.</b> .						
			24/17	2-4	23 21	1	D changing after 2		İ	ŀ				
		S2			13	1	concrete througho		$\nabla$					
4.0					10			,						
-			24/13	4-6	45	Black f-m SAND	, some Silt, trace	Gravel						2
		S3			33	(concrete in bott	om 5")							
					13									
6.0	-				15	1								
			9/8	6-8	43	Black f-m SAND								
		S4			50/3	1	rete and f gravel)		]					
8.0						Refusal on conc EOB @ 7.25'.	rete.	<u></u>				<del></del>	<del>                                     </del>	╁╌┦
°.0 <b>–</b>						JEOB & 7.23.							}	
						1								
		\$5				1				ŀ				
10.0									]					
-						]								
		S6												
						_								
12.0 -						4								
		1				-				1				
1		S7				†							1	
14.0		1				1				- 1				
10 A	GRANU	LAR SOILS		REMARKS:	<u> </u>	<u> </u>			• · · · · · · · · · · · · · · · · · · ·			-		-
1-6 0 X	BLOWS	FT. DENSITY												
0-4	VEF	Y LOOSE		Sample take	n at 0-2' at 9:00	for PP metals.						•		
4-10		OOSE		2. Sample take	n at 4-4.5' at 9:0	7 for PP metals.								
10-30	3999 - 9566 	UM DENSE												
30-50	THE COLUMN TWO	DENSE IVE SOILS												
- 1000	1 - 2- 2- 3	IFT. QONSIST	ENCY											
	VE	RYSOFT		NOTES:										
74		SOFT	Parales a parales	1) STRATIFICAT	ION LINES REP	RESENT APPROX	MATE BOUNDARY	BETWEEN SOIL	TYPES; TRANSITI	ONS MAY	BE GRADUAL.			
48	MED	IUM STIFF		2) WATER LEVE	L READINGS HA	AVE BEEN MADE	AT TIMES AND UN	DER CONDITIONS	S STATED; FLUCT	JATIONS (	OF .			
8.15		STIFF C		GROUNDWATE	R TABLEMAY O	CCUR DUE TO OT	HER FACTORS TH	AN THOSE PRES	ENT AT THE TIME	MEASURI	EMENTS WER	E		
15-30	. VE	RY STIFF		MADE.										
330	o a revie A della de	HARD.										BORIN	G NO. MW-578	y specific

eva:T	el="e1=	N1741:20171	MESTAL	OF NEW	Yolaka			* PROVECT	5 80 586 6 1 0 0 7 E	- Lecoeti	OF BORING NO	MW-57	
HO NI	TH AV	ENUE 18T	HFLOOR.	NEW YORK,	NY 10001			perk Edgewater			SHEET	tof t	
ENIONE.	EEDS A	ND SCIEN	TICTS					45 River Road gewater New Jers	av.		FILE NO CHKD BY	41.0161318.00	) 3
1	2		TO THE RESIDENCE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY O						0 51				
BO\ FOREMA	CO.		Summit Drillin John Murtha	19		•		SURFACE ELEV.	See Exploration L		ATUM		_
GZA EN			D. Salerno			•	O. LOOME	DATE START	<del></del>		END	10/24/06	-
						•							
SAMPLE	R: UNLE	SS OTHERW	ISE NOTED,	SAMPLER CON	SISTS OF			Specification (1907)	GROUNDWA	Control Total Control	art employed by the second		
A 2" SPL	IT SPOO	N DRIVEN US	SING A 140 lb.	HAMMER FALL	ING 30 IN		DATE	TIME	WATER	CASING	STABIL	ZATION TIME	
CASING	· IINII EQ	C OTHERWAR	E NOTED CA	ASING DRIVEN	ISING		24.76.76.27	100 m		M. 300 2 25 40 25			
i		R FALLING 2											
CASING	SIZE:												ISSE EN CONTROL
DEPTH (FT)	CASING BLOWS	SAMPLE	S PEN/REC	AMPLE DEPTH (FI)	BLOWS/6*	SA	UMPLE DESCRIPT LİSTER CLASSIFI	ION TATION	STRATUM DESCRIPTI		OUIPMENT ISTALLED	FIELD	R K
	DCOM3	NO	7 CIVICO	24.		BUIL	IGIEN GENOUIT					icolina	13
1			<u> </u>	<u> </u>		Air rotary to 15'.					CAP		
			<u> </u>	<u> </u>		1					2'		
2.0			<del>                                     </del>			1					*		
~ -						1					五		
						1							
						]							
4.0													
									:			1	
	<u> </u>					ł							
						ł					<u> </u>		
9													
		1			<del> </del>	1					1	ļ	
											<b>*</b>		
8.0													
					ļ	]							
				-									
40.0						-							
10.0					<u> </u>								
		1				1							
	<u> </u>	1	<b></b>			1							
12.0		<u>1</u>				]							
•						]	•						
				_									
		1		<u> </u>	<u> </u>	1					目		
14.0	<u> </u>	1				1							
15.0		1			<u> </u>	1					15'		
15.0	GRANU	L Lar Soils		REMARKS:		<u> </u>			· · · · · · · · · · · · · · · · · · ·	<u> </u>	:: 15	<u> </u>	<u> </u>
33	BLOWS	/FT. DENSIT	<i>t</i>		1. EOB @15'.								
0-4 4-10	96 - D	OOSE											
10-30 30-50		UM DENSE DENSE											
	COHES	IVE SOILS											
	VE	/FT. CONSIS RY SOFT	101461	NOTES:									
2-4 4-8		SOFT		<b>36</b>					. TYPES; TRANSIT S STATED; FLUCT		RADUAL.		
8-15		STIFF		GROUNDWATE					SENT AT THE TIME		TS WERE		
10-30 3-30	VE	RY STIFF HARD		MADE.							BORIN	G NO. MW-57	77.1

GZA ( 440 NIN ENGINI	ITH AVE			OF NEW NEW YORK,				PROJECT Gerkedgeweter 45 River Road Joewater New Jersa	2.00	(EPORT	SHEET FILE NO	GZA-119/MW Yor 1	
ва	co.		Summit Drillin	9			В	ORING LOCATION	See Exploration Location	n Plan			
FOREMA	.N		John Murtha			•	GROUNE	SURFACE ELEV.		_ [	DATUM		-
GZA ENG	SINEER	<u></u>	M. Hayes and	D. Salemo		•		DATE START	10/12/06	- DAT	E END	10/12/06	-
				SAMPLER CON			DATE	TIME	GROUNDWATER RE	ADING:	STABILI	ZATION TIME	
		OTHERWIS		SING DRIVEN	JSING								
CASING		( ) ALLINO L											
DEPTH	CASING		SECREPARA CONTRACTOR CONTRACTOR CONTRACTOR	MPLE			AMPLE DESCRIE	TION : ""	STRATUM		EQUIPMENT	FIELD :	R
ÇD,	BLOWS	SAMPLE NO	PENREC	DEPTH (FT)	BLOWS/67	BUR	MISTER CLASSIF	ICATION	DESCRIPTION		INSTALLED	TESTING	K
						Vacuum excava	ated to 5'.				CAP		
		S1											
2.0											i		
										i	3		
		S2				<u> </u>				İ	<u>ĝ</u> 3'		
						4							
4.0										}			
		S3											
			24/15	5-7	2	1	SAND, some Silt, tr	ace f Gravel			<b>3</b>		1
6.0					4	(wood and orga	inic material)						
		}			8								
		S4			15								
			24/21	7-9	5	Black m-c SAN						ŀ	
8.0					9	(slight sheen ar	na oaor)						
					12	1							ļ
		S5			12	<del> </del>	B 0111 0711		,				
10.0			24/7	9-11	5	Black m-c SAN (wood and orga						į	
10.0					19	(wood and orga	mic materialy		j			ŀ	
					7	1							
		S6		44.40	5	Denous Ell TV C							
12.0				11-13	6	Brown SILTY C							
'" -					2	1,							
1	Н		·		1	1				1	137		
		<b>S</b> 7	<del></del>		<u> </u>	EOB @ 13'.				1	<u></u>		T
14.0						1				1			
		AR SOLS		REMARKS:		•			<del>* , </del>	-	· · · · · · · · · · · · · · · · · · ·		
0.4	BLOWS/ VER	FT.DENSITY Y LOOSE		1. Watertable	observed at 5'.								
4-10 10-30	to distribute	DOSE IM DENSE											
30-50		ENSE											
4.	COHESI												
0	BLOWS	FT. CONSIST	ENCY									<del> </del>	
	VEI	ey soft Soft		NOTES: 1) STRATIFICAT	ION LINES REPI	RESENT APPROX	XIMATE BOUNDAR	Y BETWEEN SOIL T	YPES; TRANSITIONS MAY	BE GRA	ADUAL.		
4-8	" MED	UM STIFF		2) WATER LEVE	L READINGS H	AVE BEEN MADE	AT TIMES AND UN	DER CONDITIONS	STATED; FLUCTUATIONS	OF	•		
8-15		TIFF		GROUNDWATE	R TABLEMAY O	CCUR DUE TO O	THER FACTORS TI	HAN THOSE PRESE	NT AT THE TIME MEASUR	REMENTS	S WERE		
15-30 san	VE	Y STIFF		MADE.							pasu	S NO. WW-SB	

440 NII	VTH AV	NVIRON ENDE, 18T	H FLOOR	OF NEW NEW YORK	YORK NY 10001.			PROJECT I park Edgewater 45 River Road gewater New Jer		REPORT	FILE NO	GZA-138/MW 1 of 1 = 41 0151318.00 DW	0
<b>a</b> (	co.		Summit Drillin	<b>a</b>			4		See Exploration Lo	cation Plan	<u> </u>		
FOREMA		•	John Murtha	<u> </u>		•		SURFACE ELEV			DATUM		_
GZA EN	GINEER	,	M. Hayes and	D. Salemo		•		DATE START	10/11/06	DAT	E END	10/11/06	-
A 2" SPL CASING A 300 LE CASING	IT SPOOI : UNLESS 3 HAMME SIZE:	N DRIVEN US S OTHERWIS R FALLING 2	RING A 140 lb. E NOTED, CA 4 IN.	SAMPLER CON HAMMER FALL ASING DRIVEN	ING 30 IN			T ME	GROUNDWATE WATER	Asing	STABIL	IZATION TIME	
DEPTH (FT)	CASING BLOWS	SAMPLE NO	S/ PEN/REC	AMPLE DEPTH (FT)	BLOWS/6"	BUR	AMPLE DESCRIP MISTER CLASSIF	TION CATION	STRATUM DESCRIPTION		EQUIPMENT INSTAILED	FIELD: TESTING	R
M			18/16	0-2	2	topsoil	· marine de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la c	Market Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the	A CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF		CAP		and the state of
		S1			3	(2" concrete in	bottom)			'	2'		
		Ů,			5	(1" Hard pitch r	naterial)					:	
2.0					50/0	HSA to 3'.				ĺ			
									FILL		(3) (4)		
		S2			·					ŀ			
			24/14	3-5	1	1	D. Little Silt (concre	•	Ì				
4.0					1	changing after	6" to Black m-c SAN	ID, little Slit	Ì				
		<b>S</b> 3			2								1 1
		, ,	24/22	5-7	1	Brown m-c:SAI	ND. Little Silt chang	nn after		ŀ		1	
6.0_			24/22	J-1	1	1	: SAND, little Silt, tra	-					3
					1			,	1	1			
					2	1							
		S4	24/14	7-9	2	Brown-black m	-c SAND, little Silt, t	race Clay					
8.0		ļ			2	(slight odor)				ŀ			1 1
_					5								
		S5			6								
		] "	24/16	9-11	1	Gray m-c SANI	D, little Silt, trace f	Gravel		ı			
10.0					1					- 1			ŀ
					2				1	- 1		l	
		S6			2	1			ļ				1 1
	<u> </u>		24/11	11-13	1	Gray SILTY CL	.AY (organic materi	a!)	SILTY CLAY				
12.0	<u> </u>				1	(top 2" stained	black)						
		1		<u> </u>	1	1					Ħ		
	<b> </b>	1	<b> </b>	<del>                                     </del>	1	EOB @ 13'.					13'	-	+
14.0	<b>—</b>	1				EOB @ 13'.						:	
14.0		LAR SOILS		REMARKS:	<u> </u>	L			<u> </u>		<u> </u>		1
	7.77	FT. DENSITY		4 202									
0-4		YLOOSE		1. PID not work		nn	i						
4-10		.008E				:05 for PP metal	IS.						
10-30	100	UM DENSE		3. Water table o	observed at 6'.								
30-50		DENSE IVE SOILS											
	BLOWS	FT. CONSIS	ENCY										
	摊	RYSOFT		NOTES:									
24	•	SOFT	100	1) STRATIFICAT	TON LINES REPI	RESENT APPRO	XIMATE BOUNDARY	BETWEEN SOIL 1	TYPES; TRANSITIONS	MAY BE GR	ADUAL.		
4-8	MEC	IUM STIFF		2) WATER LEVE	EL READINGS H	AVE BEEN MADE	E AT TIMES AND UN	DER CONDITIONS	STATED; FLUCTUAT	IONS OF			
8-15		Śńff		GROUNDWATE	R TABLEMAY O	CCUR DUE TO O	THER FACTORS TH	AN THOSE PRESE	ENT AT THE TIME ME	ASUREMENT	S WERE		
15-30 30	VE	RY STIFF		MADE.							RAPIK	S NO. MW 69	

(CZZA)	ela(o)a	374112(0)311	WENTAL	OFINEW	Yeltik E			*V PROJECT *		REPORT (	OF BORING N	IO∵MW460	7
440 NII	ITH AV	ENUE, 18T	H FLOOR.		NY 10001			i park Edgewater			SHE	ET <u>1 of 1</u> IO, 41 0161318 00	
ENGIN	EERS A	ND SCIEN	TISTS		19 (f)		E/	lgewater New Jers	iev l	#GF4	CHKO		
	CO.	dita a tri na la à a dillera	Summit Drillin	9		_	ВО	RING LOCATION	See Exploration Locat	ion Plan			
FOREM	N		John Murtha			- -	GROUND	SURFACE ELEV.		DA	MUTA		
GZA EN	SINEER	-	M. Hayes			-		DATE START	10/19/06	DATE	END	10/19/06	•
				SAMPLER CON			DATE	TIME	GROUNDWATER WATER CA	100		ILIZATION TIME	
				ASING DRIVEN			4 60 3 5 6						
		R FALLING 24											
CASING	SIZE:												
1900 - Aller	CASING	AND COMMISSIONS AND SERVICE OF	- 5	Spearing it, eagomo, in maging	T .		AMPLE DESCRIP	TION	STRATUM	ar da brigada de Carrella de	DUPMENT	FIELD	R
(FT)	BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6	BURA	VISTĒRICLASSIF	CATION	DESCRIPTION	100 m	ISTALLED .	TESTING	K.
						HSA to 4'.					CAP		
		S1				†					2'		
2.0						1					2		
						]					F .		
		S2				4					8		
40						-			Ě				
4.0			24/2	4-6	8	Brown-red r-c S	HIS AIHII CINAS						
l		S3	24/2		5	(soft pitch in she							
					1		•						
60					1	]							
			24/12	6-8		7	SAND, little Silt					0	
		S4		<u> </u>		Soft pitch			ļ			152	
8.0		1		<u>                                      </u>		1					2		
-						1			ļ				
		S5				]							
						1							
10.0						4 .			1				
					<del> </del>	-{			·				
İ	-	S6	<u> </u>			-							
12.0			<u> </u>			1							
-						]							
		S7				4							
	<u> </u>	4	1	<u> </u>		4							
14.0	GP/ANIH	LAR SOILS		REMARKS:	L	<u> </u>			l		15'		<u> </u>
the siec	BLOWS	FT. DENSITY		TEMPINIO.									
0-4	VER	A FOOSE		1. Sampled at	6-6.5' for BTEX	+ styrene							
4-10	111	oose 🦠		2. A 3" spoon v	was used for the	6-8' interval.							
10-30	« MED)	UM DENSE											
30-50	COURC	DENSE IVE SOILS											
	BLOWS	/FT. CONSIST	ENCY (										
	VE	RY SOFT		NOTES:									
2-4		SOFT		1) STRATIFICAT	TION LINES REP	RESENT APPROX	XIMATE BOUNDAR	Y BETWEEN SOIL	TYPES; TRANSITIONS I	MAY BE GRA	ADUAL.		
4-8	MÉD	IUM STIFF		2) WATER LEVI	EL READINGS H	AVE BEEN MADE	AT TIMES AND U	IDER CONDITIONS	S STATED; FLUCTUATIO	NS OF			
8.15	h-Nykas Nykas	STIFF		GROUNDWATE	R TABLEMAY O	CCUR DUE TO O	THER FACTORS T	HAN THOSE PRES	ENT AT THE TIME MEAS	SUREMENT	S WERE		
15-30 >30	VE	RY STIFF HARD		MADE.							BOR	ING NO. MW-60	

MAIEED	S AND SCIE	NTICTO		*	45 River Road Edgewater, NJ		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	CHKD BY N	1.0161318.0 /ii
WEEK.	2 WAD 2CIE	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th						OFFICE BY	#14
<b>c</b> o.		Summit		-	BORING LOCATION S	ee Boring Location P			
MAN		Eddy		•	GROUND SURFACE ELEV		DATUM		
NGINE	R	Eugen Cela		-	DATE START 1/	/31/07	DATE END	1/31/07	
LER: G	eoprobe TM - 2"	diameter, 60-inc	h long, clear ace	tate liner, installe	d with a hydraulic hammer.				
PTH		SAMPLE			SAMPLE DESCRIPTION	STRATUM	EQUIPA	ENT	FIELD
T)	SAMPLE NO	PEN/REC	DEPTH (FT)	В	URMISTER CLASSIFICATION	DESCRIPTION	N INSTAL	LED	TESTING
		60/30	0.5	Black Asphalt		Asphalt	CAP	[	
			0.5-5	changing after 2	and Gravel, trace Silt (brick fragments), 0" to black, fine to medium SAND, little Silt,	FILL	l.		0.0 ppm
				trace fine Grave	Ł.		3.		5.4 ppm
							9.		0.0 ppm
							Š.	2"	0.0 ppm
	1			]					0.0 ppm
				1					
				1					
	-			1					
				1					
			<del> </del>	1					
				Black, fine to me	edium SAND, little Silt, trace fine Gravel (first				
		60/20	5-10	8"), changing to	gray, f-m SAND, some Silt, trace fine Gravel.		1: SI		1.1 ppm
			<u> </u>	4			018		0.0 ppm
			<u> </u>	4			11 SLOT SCREEN		0.0 ppm
			<b></b>	4			Z		0.0 ppm
	2			╛					
				]					
				1					
		60/22	10-15		Y, changing to 10" of gray Silty CLAY, of black, f-c SAND and Gravel.	Silty CLAY			0.0 ppm
					of black, I-C GARD and Graves.	J., J.,			0.0 ppm
				1					
				1					0.0 ppm
		<u> </u>	<del>                                     </del>	1					0.0 ppm
	3		+	-					
		<u> </u>	<del>                                     </del>	-				12.5'	
				4	-				
			<u> </u>	-{		SAND			
				4					
				_					
	<u> </u>				EOB @ 15'.				

BORING NO. MW-61

		NMENTAL 8TH FLOOR,			PROJECT i-park Edgewater		REPORT OF BOR	NG NO. MW-62 SHEET 1 of 1	
			NEWFICE	Ni root.	45 River Road		A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR	ILE NO. 41,0161318,0	0
ENCHEE	RS AND SCI	ENTISTS	<u> </u>	Y	Edgewater, NJ		C	HKD BY MH	
BOKING CO.		Summit		-	BORING LOCATION	N See Boring Location F	Plan		_
FOREMAN		Eddy		•	GROUND SURFACE ELEV	/	DATUM		_
GZA ENGINE	ER	Eugen Cela		•	DATE STAR	T 1/31/07	DATE END 1	31/07	-
SAMPLER: (	Geoprobe TM - 2'	diameter, 60-inc	h long, clear ace	tate liner, installe	d with a hydraulic hammer.				
DEPTH		SAMPLE			SAMPLE DESCRIPTION	STRATUM	EQUIPMEN	T FIELD	R
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	В	URMISTER CLASSIFICATION	DESCRIPTIO	N INSTALLE	TESTING	K
	NO						CAP		+
:	ļ			HSA to 16'					
							4		
								İ	
		<u> </u>		1			i i		
		<b> </b>	<del> </del>	1			<u> </u>		
		ļ		ł					
	1			4					
		<u> </u>	ļ	4					
				-					
	ľ								
5	<u> </u>			]					
	1						14'6		
							14' SLOT SCREEN		
			<u>.</u>				SCR		
							E E 2		
				1					
				1		-			
				1				İ	
10				1					
" —				1					
				1					
ŀ			<u> </u>	1					
				1					
l			<del> </del>	1					
]				1					
				1					
	1		<u>[</u>	1					
	į		<u> </u>	-					
				-					
				4				1	
15				1				[	
ŀ				_				ļ	
16									1
REMARKS:	1- EOB @ 16	6'.							
					•				
							· · · · · · · · · · · · · · · · · · ·		
NOTES:	1) STRATIFI	CATION LINES R	EPRESENT AP	PROXIMATE BO	JNDARY BETWEEN SOIL TYPES; TRANS	ITIONS MAY BE GRAD	UAL.		
ļ	2) WATER L	EVEL READING	S HAVE BEEN N	NADE AT TIMES	AND UNDER CONDITIONS STATED; FLUC	CTUATIONS OF GROU	NDWATER TABLE		
	MAY OCCUE	R DUE TO OTHE	R FACTORS TH	AN THOSE PRE	SENT AT THE TIME MEASUREMENTS WE	ERE MADE.			

BORING NO. MW-62

		NMENTAL			PROJECT	Ž	ı	REPORT OF BORING N		
140 NINTH	AVENUE, 1	8TH FLOOR,	NEW YORK,	NY 10001	i-park Edgewater 45 River Road				T 1 of 1 O. 41.0161318.00	0
ENCERER	S AND SCI	ENTISTS		4	Edgewater, NJ	· · · · · · · · · · · · · · · · · · ·		CHKD B		<u> </u>
	<u> </u>	C			BORING LOCATION	Con Boring Local	ion Dion	<u> </u>		
BONG CO.		Summit		-	•		ion rian	DATUM		-
FOREMAN	-n	Eddy		-	GROUND SURFACE ELEV.  DATE START	•		DATE END 1/31/07		-
GZA ENGINE	EK	Eugen Cela		-	DATESTAN	1/31/01		DATE END 1/31/07		
SAMPLER: G	Seoprobe TM - 2	diameter, 60-inc	th long, clear ace	etate liner, installe	d with a hydraulic hammer.					
DEPTH		SAMPLE			SAMPLE DESCRIPTION	STRAT		EQUIPMENT	FIELD	R
(FT)	SAMPLE NO	PEN/REC	DEPTH (FT)	В	URMISTER CLASSIFICATION	DESCRIF	PTION	INSTALLED	TESTING	K
		60/50	5-10		vn fine to medium SAND, little Silt, trace fine	FILI		CAP	0.0 ppm	
				material.	gments) changing after 30" to black pitch				0.0 ppm	
	1							ĝ.	0.0 ppm	
				1				i ĝ		
				1				羹	0.0 ppm	ļ
	1		<u> </u>	1					0.0 ppm	Ì
	ĺ			1					0.0 ppm	l
				-					0.0 ppm	ŀ
	•		1	-					0.0 ppm	
			<u> </u>	4					0.0 ppm	1
				4					0.8 ppm	
5			<u> </u>						0.8 ppm	
		60/30	5-10		h material, changing to 10" of black f-m Gravel (rock fragments), trace Silt.			10.5	0.8 ppm	
	1		<u> </u>					101	0.8 ppm	
	ļ			]				SCF	0.8 ppm	
				1				10' SLOT SCREEN	0.8 ppm	
	2			1					0.8 ppm	
				1						
	Ì			1					0.8 ppm	į
				1					0.8 ppm	
	ļ	ļ	<u> </u>	-					0.0 ppm	Ì
10	<del> </del>			2" of black, fine	to coarse SAND and Gravel, changing to 1"				0.0 ppm	l
		24/3	10-12	of fine Gravel (r					0.0 ppm	
	3			4					0.0 ppm	Ì
			<b></b>	4					0.0 ppm	
12				EOD @ 401/2-4	/lear	GRAV	ÆL.		0.0 ppm	
l				EOB @ 12' (refi	isai).					
1				1						
				1						
				_						
				]						
15	1			1						
	†		1	1					1.	
REMARKS:	J	<u> </u>		<u> </u>		<u> </u>			1	1
LEWINKA.										
NOTES:	1) QTD ^ T/F'	CATION LINES	DEDDERENT AD	DROYIMATE BO	JNDARY BETWEEN SOIL TYPES; TRANSIT	TIONS MAY BE O	PADDA			
MOTES:	•				AND UNDER CONDITIONS STATED; FLUCT			TADI E		
					SENT AT THE TIME MEASUREMENTS WEF		CONUMNIE	·		

BORING NO. MW-63

GZA	GEOE	VVIRON	VENTAL	OF NEW	ORK :	PROJECTS A SECTION OF THE PROJECTS	REPORT	OF BORING NO. MW-64
				NEW YORK,	NY 10001	i Park Edgewater	I. VA.	SHEET 1 of 2
leve.	NICESS A	ND SCIEN	тібте			45 River Rd EdgeWater, NJ		FILE NO. 41.0161318,00 CHKO BY
ENG	NEEKS A	ND SCIEW	iloio 📜	sa sta Ai	ha Bert Star 12 18	Edgewater, NU	4.4.52.62	CHKD BY
ORIN	IG CO.	Summit				BORING LOCATION		·····
FORE	MAN	Jeff				GROUND SURFACE ELEV.		DATUM
GZA E	NG.	M. Hayes				DATE START	6/5/07	DATE END 6/5/07
	ING TYPE							
				SAMPLER CON		GRO	THE TAX OF THE TAX TO THE BOX	e of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of t
A 2" S	PLIT SPOOI	N DRIVEN US	ING A 140 lb.	HAMMER FALL	ING 30 IN	DATE TIME	WATER C	STABILIZATION TIME
1						1 2 4 1 - 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	wat de to the	<u> </u>
1				SING DRIVEN (	JSING			
A 300	LB HAMME	R FALLING 24	4 IN.					
DEPT	H FIELD		<b> </b>	AMPLE	at the first	SAMPLE DESCRIPTION	STRATUM	EQUIPMENT R
(FT)		SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6*	BURMISTER CLASSIFICATION	DESCRIPTION	INSTALLED K
-	+	NO	2 2 2	of their control		S1: Loose, brown, fine SAND, some Silt, trace fine	<u>ka ndadind Sero.</u>	CAP .
	-	1	24/12	0-2	5	Gravel, trace possible slag.		
	0	S1			<u>3</u>	1		
2.0	-	1			4	1		
2.0	+		245			S2: Medium dense, brown to black fine SAND,		
1	0	1	24/7	2-4	2	some Silt (mostly wet).		
1		<b>\$2</b>	ļ		10	4		
	ļ	1			5 10	4		
4.0	+					S3: Medium dense, brown, fine SAND, some Silt	<del>-</del>	
1	0		24/20	4-6	4	(wet) Bottom 4" black, fine SAND, some Sitt.		
1	0	S3			9	-		
	3.6	ł			12	4		
6.0	+		<u> </u>		20	S4: Very dense, brown to black, fine SAND, some		
	1.8	ł	24/20	6-8	14	Silt (wet, no slag).		
7	1.3	S4			15	4		
	0.2	4		ļ	24	-		
8.0		ļ		<u> </u>	8	S5: No recovery		
	-	1	24/0	8-10	15	33. No lectively		
1	ļ	S5			9	4		
1		1		<u> </u>	5	4		
10.0	4	ļ	ļ		10	S6: Top 5": Medium dense, brown, fine SAND,		
	ļ	j	24/14	10-12	10	some Silt. Bottom 11": Medium dense, black, fine		
1	0	S6	ļ	ļ	9	to coarse SAND, little Silt.		
	0.5	4		<u> </u>	- 6	4		
12.0	+			<u> </u>	4	S71) cone block modium to cone CAND		
ı		1	24/19	12-14	4	S7: Loose, black, medium to coarse SAND (potential stag). Bottom 3" tar paper.		
1	0.6	S7			wон	4		
1	0.6	1			wон	4		
14.0			***************************************		мон	<u></u>	l	
A. 18	water for the first terms of	LAR SOILS /FT. DENSITY		REMARKS:		ected from 0-2' for TAL metals analysis; sample of sla ected from 3.5-4' for TAL metals analysis.	ig saved.	
		a make a second			a) Sample Coll	edec non 3.3-4 for the metals analysis.		
0-4	i da di	a da del						
4-10	Special Section	OOSE						
10-30	MEDI	UM DENSE	Company	}				
30-50	and the first office of	Y DENSE						
		IVE SOILS JET. CONSIST	ENCY					
	खु <i>र</i> ास्य ग्रह्मा	a was on a	* * * *	NOTES:	·	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t		
	and the second	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	نخو :	NOTES:		DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF		
2-4		SOFT				RESENT APPROXIMATE BOUNDARY BETWEEN SOIL		
4-8	12 2 4 0	5 6 20 20 30 30 50		2) WATER LEVE	EL READINGS H	AVE BEEN MADE AT TIMES AND UNDER CONDITIONS	STATED; FLUCTUAT	IONS OF
8-15		STIFF		GROUNDWATE	R TABLEMAY O	CCUR DUE TO OTHER FACTORS THAN THOSE PRES	ENT AT THE TIME ME.	ASUREMENTS WERE
15-30		RYSTIFF		MADE.			ground	Assessed about the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co
>30								BORING NO. MW-64

ORING CO. FOREMAN GZA ENG. DRILLING TYPE SAMPLER: UNL A 2" SPLIT SPOOL CASING: UNLES A 300 LB HAMMI  DEPTH FIELD (FT) TESTING 25.2  18.0 25.4  20.0  24.0	IN DRIVEN US	ING A 140 lb. E NOTED, CA 4 IN.	HAMMER FALLI	ING 30 IN USING	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION S8: Very soft, black to brown, fine SAND, some Silt (slight green).  S9: Medium stiff, Peat.	NDWATER READINGS WATER CASING STABILIZATION
GZA ENG.  DRILLING TYPE SAMPLER: UNL A 2" SPLIT SPOC  CASING: UNLES A 300 LB HAMMI  DEPTH FIELD (FT) TESTIN  20.0  22.0  24.0	M. Hayes  ESS OTHERW N DRIVEN US S OTHERWIS S OTHERWIS S AMPLE NO S8 S9 S10	E NOTED, CA IN. S/ PENREC 24/4	HAMMER FALLI SING DRIVEN U AMPLE DEPTH (FT) 14-16	BLOWS/6*  5 WOH WOH 3 3	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION S8: Very soft, black to brown, fine SAND, some Silt (slight green). S9: Medium stiff, Peat.	NDWATER READINGS WATER CASING STABILIZATION STRATUM EQUIPMENT DESCRIPTION INSTALLED
DRILLING TYPE SAMPLER: UNL A 2" SPLIT SPOO  CASING: UNLES A 300 LB HAMMI  DEPTH RELD (FT) TESTIN  0.2  16.0  0.6  0.74  25.2  18.0  22.0	SS OTHERWING DRIVEN US S OTHERWIS S OTHERWIS S SAMPLE NO S8 S9 S10	E NOTED, CA IN. S/ PENREC 24/4	HAMMER FALLI SING DRIVEN U AMPLE DEPTH (FT) 14-16	BLOWS/6*  5 WOH WOH 3 3	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION S8: Very soft, black to brown, fine SAND, some Silt (slight green). S9: Medium stiff, Peat.	NDWATER READINGS  WATER CASING STABILIZATION  STRATUM EQUIPMENT  DESCRIPTION INSTALLED
SAMPLER: UNL A 2" SPLIT SPOC  CASING: UNLES A 300 LB HAMMI  DEPTH FIELD (FT) TESTING  0.2  16.0  0.6  0.74  25.2  18.0  20.0	S OTHERWISER FALLING 20 SAMPLE NO S8 S9 S10	E NOTED, CA 4 IN. S/ PEN/REC 24/4	HAMMER FALLI SING DRIVEN U AMPLE DEPTH (FT) 14-16	BLOWS/6*  5 WOH WOH 3 3	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION S8: Very soft, black to brown, fine SAND, some Silt (slight green). S9: Medium stiff, Peat.	WATER CASING STABILIZATION  STRATUM EQUIPMENT DESCRIPTION INSTALLED
A 2" SPLIT SPOC  CASING: UNLES A 300 LB HAMMI  DEPTH FIELD (FT) TESTING  0.2  16.0  0.6  0.74  25.2  18.0  20.0	S OTHERWISER FALLING 20 SAMPLE NO S8 S9 S10	E NOTED, CA 4 IN. S/ PEN/REC 24/4	HAMMER FALLI SING DRIVEN U AMPLE DEPTH (FT) 14-16	BLOWS/6*  5 WOH WOH 3 3	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION S8: Very soft, black to brown, fine SAND, some Silt (slight green). S9: Medium stiff, Peat.	WATER CASING STABILIZATION  STRATUM EQUIPMENT DESCRIPTION INSTALLED
DEPTH FIELD (FT) TESTING  0.2  16.0  0.6  0.74  25.2  18.0  22.0  24.0	S SAMPLE NO S8	PEN/REC 24/4	DEPTH (FT)- 14-16	5 WOH WOH 3 3	BURMISTER CLASSIFICATION  S8: Very soft, black to brown, fine SAND, some Silt (slight green).  S9: Medium stiff, Peat.	DESCRIPTION INSTALLED
16.0 0.6 0.74 25.2 18.0 25.4 25.4 22.0 22.0 24.0	S8 S9 S10	PEN/REC 24/4	DEPTH (FT)- 14-16	5 WOH WOH 3 3	BURMISTER CLASSIFICATION  S8: Very soft, black to brown, fine SAND, some Silt (slight green).  S9: Medium stiff, Peat.	DESCRIPTION INSTALLED
18.0 0.6 0.74 25.2 18.0 22.0 22.0 22.0 24.0	S8 S9 S10	24/4	14-16	5 WOH WOH WOH 3	S8: Very soft, black to brown, fine SAND, some Silt (slight green).  S9: Medium stiff, Peat.	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
16.0 0.6 0.74 25.2 18.0 25.4 25.4 22.0 22.0 24.0	S9 S10			WOH WOH WOH 3 3	(slight green). S9: Medium stiff, Peat.	
20.0	S9 S10	24/21	16-18	WOH WOH 3 3		
20.0	S10	24/21	16-18	WOH 3 3 2		
20.0	S10	24/21	16-18	3 3 2		
20.0	S10	24/21	16-18	3		
20.0	S10			2	End of Boring 18'	
20.0				Ť	End of Boring 18'	
22.0					End of Boring 18'	
22.0						
22.0						
22.0	S11					
24.0	S11			ì	i l	
24.0	S11			1	1	
24.0	- S11		1		1	
24.0	7	İ			]	
	1				]	
					]	
	S12				1	
	] "					
26.0				ļ	1	
26.0	4			ļ	4 l	
26.0	S13		ļ	1	4 l	
26.0	4		<b></b>	ļ	4 l	
	<del> </del>	<del>                                     </del>		1	4 l	
	-		<b> </b>		4 1	
	S14				<del> </del>	
	-1				1	
28.0 GRANI	LAR SOILS	0/95 6 y 68	REMARKS:	3) Sample at 1	17.5-18' for TAL metals analysis.	
BLOW:			1	.,		
0.4 VE	RY LOOSE					
4-10	LOOSE	rri per 1968. Graph Arthur				
10-30 MEI	IUM DENSE		1			
2 1 St 30						
, COHE	IVE SOILS	ini la Ma				
BLOW	S/FT. CONSIST	ENCY				
1 1 1 1 1 1 1 1 1 1	RY SOFT	A Section of	NOTES:			
2-4	SOFT		1) STRATIFICAT	TION LINES REP	RESENT APPROXIMATE BOUNDARY BETWEEN SOIL TY	PES; TRANSITIONS MAY BE GRADUAL.
4-8 ME	DIUM STIFF		2) WATER LEVE	EL READINGS H	AVE BEEN MADE AT TIMES AND UNDER CONDITIONS ST	TATED; FLUCTUATIONS OF
8-15	STIFF	He had	GROUNDWATE	R TABLEMAY O	CCUR DUE TO OTHER FACTORS THAN THOSE PRESEN	IT AT THE TIME MEASUREMENTS WERE

440 Nii	NTH AVE	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	I FLOOR, I	OF NEW YORK,		PROJECT i Park Edgewater 45 River Rd Edgewater; NJ	REI	PORT OF BORING NO. MW-68 SHEET 1 of: FILE NO. 41.01613 CHKD-BY	1
BORING		Summit			<u> </u>	BORING LOCATION			uzvitá
FOREM	•	Jeff			,	GROUND SURFACE ELEV.		DATUM	
GZA EN	-	M. Hayes				DATE START	6/6/07	DATE END 6/6/07	
DRILLIN	-								
SAMPLE	R: UNLES	S OTHERWI	SE NOTED, S	AMPLER CONS	SISTS OF	GRO	OUNDWATER R	EADINGS	7.1 ° 1
CASING	: UNLESS		E NOTED, CA	HAMMER FALLI		DATE TIME	WATER	CASING STABILIZATION	I TIME
DEPTH			ŝ	AMPLE		SAMPLE DESCRIPTION	STRATU	JM EQUIPMENT	R
(FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BURMISTER CLASSIFICATION	DESCRIPT	김기 사람이 나를 하다 가장 가장하게 되었다.	к
	0		24/7	0-2	5	S1: Medium dense, brown, fine to coarse SAND,	<u>का तर ४ जारक्षी.</u>	CAP	1
1	-				8	trace Silt (trace concrete, brick fragments).			ľ
	o	S1			18				
2.0					24				
1	0		24/24	2-4	24	S2: Very dense, brown to gray, fine to coarse SAND, some Silt.			
	0	\$2			40	erute, como em.			1
1	0	<del></del>			50				1
4.0	0				50	S2: Veni donos gravita black fire to corre			1
	0		24/16	4-6	12	S3: Very dense, gray to black, fine to coarse SAND, trace Silt (little concrete fragments).	}		
1	0 S3		31						
6.0			<b> </b>		19 19				2
₹" -	0.2		24/16	6-8	13	S4: Medium dense, gray to black, fine to coarse			ľ
	1.7		2-9/10	V-0	17	SAND, some silt (wet)			1
	···	S4			12				
8.0					12				1
"	0		24/24	8-10	12	S5: Medium dense, black, medium to coarse SAND			1
	0.5	S5			12	. Bottom 8": 2" Hard pitch changing to possible ash/slag.			
	1.2	- 55			13		<b>_</b>		
10.0	12.7				11				1
	0		24/6	10-12	8	S6: Medium dense, black, medium to coarse SAND, trace Silt, little fine Gravel (possible ash)			
		S <del>6</del>	<u> </u>		12	(wet)			
					2				
12.0	_		24/24	12-14	3	S7: Top 14": Loose, gray to black medium to			
	0		24/24	12-14	3	coarse SAND, trace Silt. Bottom 10": Medium stiff,			
1	-	S7			3	gray, Silty Clay (organics).			
14.0	0				3	End of Boring 14'			3
	GRANUL	AR SOILS		REMARKS:	1) Sample colle	cted from 0-2' for TAL metals analysis.			
<u>:</u>		T. DENSITY	<u> </u>		2) Sample coll	ected from 5.5-6' for PP+40 analysis.			
0-4	VER'	LOOSE			3) Sample coll	acted from 12.5-14' for TAL metals analysis.			
4-10	L	OOSE							
10-30	MEDIL	IM DENSE	Ar in						
30-50		·					٠		
	1 1 7	/E'SOILS	iris con d						
<2		T. CONSIST	ENCY	NOTES:					
2-4		Y SOFT SOFT			ON LINES REP	RESENT APPROXIMATE BOUNDARY BETWEEN SOII	TYPES: TRAME	ITIONS MAY RE GRADUAL	
4-8		UM STIFF		1		AVE BEEN MADE AT TIMES AND UNDER CONDITION			
8-15	2.0	TIFF		l '		CCUR DUE TO OTHER FACTORS THAN THOSE PRES			
15-30	A	YSTIFF		MADE.					
>30		IARD	1	I				BORING NO. MW-65	5

eff  f. Hayes  S OTHERWI	SE NOTED, S ING A 140 lb. I E NOTED, CA: IN.	AMPLER CONS HAMMER FALLI SING DRIVEN L WPLE DEPTH (FT)	SISTS OF ING 30 IN	BORING LOCATION GROUND SURFACE ELEV. DATE START 6/6/07  GROUNDWA  DATE TIME WAT  SAMPLE DESCRIPTION ST: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	CHKD BY  DATUM DATE END 6/6/07  TER READINGS ER CASING STABILIZATION  FRATUM EQUIPMENT CRIPTION INSTALLED
SAMPLE S1	SE NOTED, SING A 140 lb. I E NOTED, CASIN. SA FENTREC 24/19	AMPLER CONS HAMMER FALLI SING DRIVEN L MPLE DEPTH (FI)	BLOWS/6**  9 38 50 40	BORING LOCATION GROUND SURFACE ELEV. DATE START 6/6/07  CROUNDWA DATE TIME WAT  SAMPLE DESCRIPTION BURMISTER CLASSIFICATION DES S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	DATUM DATE END 6/6/07  IER READINGS ER CASING STABILIZATION  FRATUM EQUIPMENT CRIPTION INSTALLED
eff  f. Hayes  S OTHERWI DRIVEN US  OTHERWIS FALLING 24  SAMPLE NO  S1	ING A 140 lb. I E NOTED, CAS IN. SP PENTREC 24/19	HAMMER FALLI SING DRIVEN U MPLE DEPTH (FT) 0-2	BLOWS/6**  9 38 50 40	GROUND SURFACE ELEV.  DATE START 6/6/07  GROUNDWA  DATE TIME WAT  SAMPLE DESCRIPTION SS  BURMISTER CLASSIFICATION DES  S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	TER READINGS  ER CASING STABILIZATION  TRATUM EQUIPMENT  CRIPTION INSTALLED
A. Hayes S OTHERWI DRIVEN US OTHERWIS FALLING 24 SAMPLE NO S1	ING A 140 lb. I E NOTED, CAS IN. SP PENTREC 24/19	HAMMER FALLI SING DRIVEN U MPLE DEPTH (FT) 0-2	BLOWS/6**  9 38 50 40	SAMPLE DESCRIPTION  SAMPLE DESCRIPTION  BURMISTER CLASSIFICATION  S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	TER READINGS  ER CASING STABILIZATION  TRATUM EQUIPMENT  CRIPTION INSTALLED
S OTHERWI DRIVEN US OTHERWISI FALLING 24 SAMPLE NO S1	ING A 140 lb. I E NOTED, CAS IN. SP PENTREC 24/19	HAMMER FALLI SING DRIVEN U MPLE DEPTH (FT) 0-2	BLOWS/6**  9 38 50 40	SAMPLE DESCRIPTION  SAMPLE DESCRIPTION  BURMISTER CLASSIFICATION  S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	ER CASING STABILIZATION  FRATUM EQUIPMENT  CRIPTION INSTALLED
DRIVEN US OTHERWIS FALLING 24 SAMPLE NO S1	ING A 140 lb. I E NOTED, CAS IN. SP PENTREC 24/19	HAMMER FALLI SING DRIVEN U MPLE DEPTH (FT) 0-2	BLOWS/6**  9 38 50 40	SAMPLE DESCRIPTION  BURMISTER CLASSIFICATION  S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	ER CASING STABILIZATION  FRATUM EQUIPMENT  CRIPTION INSTALLED
SAMPLE NO S1	E NOTED, CAS IN. SA PENALEC: 24/19	SING DRIVEN U MPLE DEPTH (FT) 0-2	9 38 50 40	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION DES S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	FRATUM EQUIPMENT CRIPTION INSTALLED
SAMPLE NO S1	SF PEN/REC 24/19	MPLE DEPTH (FT) 0-2	9 38 50 40 20	SAMPLE DESCRIPTION  BURMISTER CLASSIFICATION  DES  S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	FRATUM EQUIPMENT CRIPTION INSTALLED
SAMPLE NO S1	SF PEN/REC 24/19	MPLE DEPTH (FT) 0-2	9 38 50 40 20	S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	CRIPTION INSTALLED
SAMPLE NO S1	24/19 24/11	0EPTH (FT).	9 38 50 40 20	S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	CRIPTION INSTALLED
SAMPLE NO S1	24/19 24/11	0EPTH (FT).	9 38 50 40 20	S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	CRIPTION INSTALLED
S1	24/19 24/11	0-2	9 38 50 40 20	S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	
S1 S2	24/19	0-2	9 38 50 40 20	S1: Very dense, brown to gray, fine to coarse SAND, little Silt (one small piece of soft pitch).  S2: Very dense, black to red, fine to coarse SAND,	AGENIA LIVE AND BURE OF SOME AND
S2	24/11		38 50 40 20	S2: Very dense, black to red, fine to coarse SAND,	
S2		2-4	40 20		Ţ,
		2-4	20		
		2-4	<del></del>		
	24/2		16	trace Silt.	4
\$3	24/2		15	1	
<b>S</b> 3	24/2		10	1	
\$3		4-6	15	S3: Medium dense, fine to coarse SAND, WOOD and fine GRAVEL.	
			10	and the GVAVEE.	
			12	4	
	24/12	6-8	17	S4: Medium dense, black, fine to coarse SAND,	
	24/12	0-0	15	some fine Gravel, trace Silt (wet), (concrete/brick fragments).	
S4			10		
			wон	SE Manudana black Facto access SAND trans	
	24/12	8-10	5	S5: Very dense, black, fine to coarse SAND, trace Silt (little soft pitch).	
<b>S</b> 5			50/4	1	
				1	
	24/13	10-12	5	S6: Soft, gray, Silty CLAY.	
<b>S</b> 6			1	4	
	ļ —		1	-	
	24/24	12-14	2	S7: Soft, gray, Silty CLAY.	
a-	27/27	72-17	3	1	
<b>S7</b>			11	]	
			1	End of Boring 14'	
લ દે પ્રાપ્	de vidêna.	REMARKS:	•	lected from 0-2' for TAL metals analysis.	
T. DENSITY				lected from 6.5-7' for PP+40 analysis.	
LOUSE IOSE			o, cample out		
3 T. F. M.					
DENSE					
E SOILS					
L & - Wald.	ENCY	NOTES:		and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	
the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa			TION LINES REF	PRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES:	FRANSITIONS MAY BE GRADUAL.
Y SOFT		· .			
the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa	profession was	GROUNDWATE	R TABLEMAY C	OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT T	HE TIME MEASUREMENTS WERE
)C	OOSE DENSE DENSE SOILS CONSIST SOFT FT	OOSE ISE IDENSE DENSE SOILS CONSISTENCY SOFT	OOSE SE DENSE DENSE SOILS CONSISTENCY SOFT NOTES: FI 1) STRATIFICAT (STIFF 2) WATER LEVE	OOSE 3) Sample col SSE DENSE DENSE SOILS CONSISTENCY SOFT NOTES: 1) STRATIFICATION LINES REI 1) STRATIFICATION LINES REI 1) WATER LEVEL READINGS H GROUNDWATER TABLEMAY C	OOSE  3) Sample collected from 11-11.5' for TAL metals analysis.  SE DENSE DENSE SOILS CONSISTENCY SOFT NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED GROUNDWATER TABLEMAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT T

O. MAN ENGINEE		Summit Matt Radd		Edgewater, NJ BORING LOCATION	<u> </u>	CHKD BY		
NGINE				BORING LOCATION				
NGINE		Matt Radd				DATUM		-
	ir.			GROUND SURFACE ELEV.		DATUM		-
LER: G		A. Hough		DATE START 6/	11/07	DATE END 6/11/07		_
	eoprobe TM - 2"	diameter, 60-inc	h long, clear ace	tate liner, installed with a hydraulic hammer.				
РТН		SAMPLE		SAMPLE DESCRIPTION	STRATUM	EQUIPMENT	FIELD	Τ
T)	SAMPLE	PEN/REC	DEPTH (FT)	BURMISTER CLASSIFICATION	DESCRIPTION	INSTALLED	TESTING	l
	NO			S1: Top 0.2': Brick. Middle 2.7': Brown, fine to coarse SAND		CAP		t
1			<del>                                     </del>	and fine GRAVEL, little Silt. Bottom 0.6': Black, fine to coarse SAND and fine GRAVEL.		272		1
		5/3.5	0.2-5.2			3	0	١
						16		ı
			<del> </del>			<u></u>	0	ĺ
	1						į	ľ
							0	
								1
								ŀ
								ŀ
								Ì
		5/2.3	5.2-10.2	S2: Top 0.3': Brown to black, fine to coarse SAND and fine				l
	:	3/2.3	J.2-10.2	GRAVEL. Bottom 2': Black, fine GRAVEL and fine to coarse SAND, little pieces of Wood (sheen at 8.4').				I
								۱
			<u> </u>	1				
		<u> </u>	<u> </u>	1				١
<b>'</b>	2		1	-				
			<u> </u>				0	١
			<u> </u>	<b>.</b>				l
							0	
				]				
							0	ı
		1/0.8	10.2-11.2	S3: Gray, Silty CLAY.				
				1			0	ı
				End of Boring 11.2'.				I
				1				Ì
				1				Ì
	3			1 1				ŀ
			<u> </u>	1				
			<del>                                     </del>	<del> </del>				
			+	1				
				1				
			<u>L</u>				<u> </u>	1

GZA (	GEOEN	WIRON	JENTAL,	OF NEW Y	ORK *		PROJECT		R£F	ORT OF BOR	NG NO	MW-68	£ .
440 NII	NTH AVE	ENUE, 18T	H FLOOR, I	VEW YORK,	NY 10001		i,Park Edgewate	<b>T</b>			SHEET	1 of 1	
		ويحريفط حر					45 River Rd Edgewater, NJ	er i gankin de Kanalan kanalan			ILE NO. 41	.016131	8.00
ENGIN	EERS A	ND SCIEN	iisis 🚕	edita (Angle)	reg to	West Service	Edgewater, NJ			19 943 W	HKD:BA	April 1	80-34 61-4
BORING		Summit		3. 3. 3. 36. 30	militi with the	in the law and the	And the second second	RING LOCATION	<b>8</b> ak		<u> </u>		او دست
FOREMA	-	Jeff						SURFACE ELEV.	**************************************		DATUM		_
GZA EN	-	M. Hayes						DATE START			-	8/6/07	
DRILLIN	G TYPE												
SAMPLE	R: UNLES	S OTHERW	ISE NOTED, S	SAMPLER CONS	SISTS OF			GRO	UNDWATER R	EADINGS	18 18		
A 2" SPL	IT SPOON	I DRIVEN US	ING A 140 lb.	HAMMER FALL	ING 30 IN		DATE	TIME	WATER	CASING	STABILIZ	ATION 1	TIME
CASING	· IINI ESS	OTHERWIS	E NOTED CA	SING DRIVEN (	ISING								
1		R FALLING 24											
DEPTH	gretes.		\$/	MPLE		S/	AMPLE DESCRIP	TION	STRATIL	M j	EQUIPMEN	Ů,	R
(FT)	PIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BÜRN	ISTER CLASSIF	ICATION	DESCRIPT	1 1 1	INSTALLE	*c ·	ĸ
		<u> </u>		200 100 100 100 100		HSA to 14'.	<u> </u>				CAP		
						]			]		3.5		
						1							
2.0						1						j	
						1							
			<del></del>			1							
4.0			-			1							
"" -						1							
1	-					1							
J						1							
6.0			-			1							
1 -									Ì				
İ													
1										]			
8.0						ļ				1			
	ļ				<u> </u>	-				:			
	<b> </b>				]	1							
10.0	<b></b>				<u> </u>	1							
-						1							
						]							
		l											
12.0						1							
						1							
	<u></u>				ļ	1							
		1			<u> </u>	4			1				
14.0	<u> </u>	142-27	<u> </u>		<u> </u>	L	·		1				Щ
	. ".	AR SOILS		REMARKS:									
0-4		FT. DENSITY Y LOOSÉ	<mark>ادري څخک د رائيلا</mark> کو ان دې دو ارځان										ļ
4-10		OOSE											
10-30		JM DENSE											
30-5Ó		ENSE											
	COHEST	VE SOILS	er i lett. :										
	BLOWS/	FT. CONSIST	ENCY										
<2		RY SOFT		NOTES:									
2-4		SOFT	tingt order i Regundaçor, ac	· .				Y BETWEEN SOIL			RADUAL.		
4-8		UM STIFF						NDER CONDITIONS HAN THOSE PRESI			ITS WERE		
8-15 15-30		STIFF RY STIFF	Merchild S Sam Smertsa	į	N IADLEMAT O	OUR DUE 100	II ENUIUNA Nain	INN INVOE PRESI	SALALINE IME	MEMOUREMEN	AIS WERE		
>30		HARD		I						BORIN	G NO.	MW-68	-

440 NI	NTH AV	ENUE, 18T	H FLOOR,		NY 10001	the second	PROJECT			Tale of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same o	1 of 1
ENGIN	EERS #	AND SCIEN	TISTS	ું તે ત્યું અપૂર્ણ છે. જે	A The Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the	on money is	45 River Rd "Edgewater, NJ			CHKO BY	
BORING		Summit		<u> </u>		<u> </u>	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	RING LOCATION	. 11		3.0.6%
FOREM		Jeff			•			SURFACE ELEV.		DATUM	
GZA EN		M. Hayes			•			DATE START	6/5/07	<del></del>	5/5/07
ı	G TYPE				•						· · · · · · · · · · · · · · · · · · ·
		SS OTHERW	ISE NOTED.	SAMPLER CONS	SISTS OF	<b></b>	S S W N LONG	GRO	UNDWATER RE	ADINGS	, 35°, 53° 7° 7° 7° 7° 7° 7° 7° 7° 7° 7° 7° 7° 7°
A 2" SPI	LIT SPOO	N DRIVEN US	ING A 140 lb. E NOTED, CA	HAMMER FALL	ING 30 IN		DATE	TIME	WATER	CASING STABILIZA	ATION TIME
DÉPTH	1111			AMPLE	1 1 2 2 2	S	MPLE DESCRIP	IION	STRATU	M EQUIPMEN	n R
(FT)	FIELD	SAMPLE	PEN/REC	DEPTH (FT)	BLOWS/6"	figures and the second	MISTER CLASSIFI		DESCRIPT		
(F1)	TESTING	NO	PENIALO	OCT III (II)	550,1010		moren deroom i				
	<b>!</b>	110				HSA to 15'	<u> </u>	<u> </u>	<u>رىدىكا ئىدىكى ئەتلەپ كەردىك</u>	CAP	
		1			1	1					
		1	<del> </del>	<b> </b>	l	1					
2.0	<b>—</b>	1	<b></b>	<del>                                     </del>	<u> </u>	†					
2.0	<del> </del>	<del> </del>	<del></del>	<del></del>		1					- 1
ł	<del></del>	1	<del></del>	<u> </u>	<del> </del>	1					
		1	<del> </del>		<b> </b>	1					
4.0		1		<u> </u>	<u> </u>	1					
- ""	<del>                                     </del>	<del> </del>				1					
1		-{				1					
1	<u> </u>	-	<u> </u>			ł					
1		4				-					
6.0		<u> </u>				4					
'	<u> </u>	₹				4					
1	ļ	4				-					
	<u> </u>	4			<u> </u>	-					
8.0	<del>                                     </del>		<u> </u>	<u> </u>		4					
1		4	<u> </u>		ļ	-					
	-	-1			<u> </u>	4					
1	ļ	-{				4					
10.0	-	<del> </del>				4					
1	-	-		ļ		4					
ŀ	<b></b>	-		<del> </del>	<u> </u>	-					
4.5.5	<u> </u>	-1		<del> </del>	ļ	1					ĺ
12.0	<del> </del>	<b>_</b>	<del> </del>	<del>                                     </del>	<u> </u>	-					- 1
	<u> </u>	4	<u> </u>			-					
Ì		4	<del></del>	<del>                                     </del>	<u> </u>	1					
		4		<u></u>	<u> </u>	1					
1		4			ļ	-					
1		4				4					1
15.0	<u></u>					<u> </u>					
	GRANL	ILAR SOILS		REMARKS:							
	BLOWS	/FT. DENSITY									
0.4	VE	RY LOOSE									
4-10		LOOSE	*								
10-30	MED	IUM DENSE	1 1 1 2								
30-50		DENSE	Marie Company	_							
	COHES	IVE SOILS									
1,12	BLOWS	FT: CONSIST	TENCY /								
<2	VE	RY SOFT		NOTES:							
2-4	ing distant.	SOFT		1) STRATIFICAT	TION LINES REP	RESENT APPRO	XIMATE BOUNDAR	Y BETWEEN SOIL	TYPES; TRANSIT	IONS MAY BE GRADUAL.	
4-8	ME	DIUM STIFF	eg Takelbur (sa)	2) WATER LEVE	EL READINGS H	AVE BEEN MADE	AT TIMES AND UN	IDER CONDITIONS	STATED; FLUCT	TUATIONS OF	
8-15	engersky fl 4 de noarde	STIEF	g 1969 billion. Said Africa	GROUNDWATE	R TABLEMAY O	CCUR DUE TO C	THER FACTORS T	HAN THOSE PRES	ENT AT THE TIME	MEASUREMENTS WERE	
15-30	.,	RY STIFF	Aprilaring peri	MADE.							
>30	fire ingli	HARD	S. 245 - 5							BORING NO. I	WW-69

NGINE	ERS AN	ID SCIENT	TISTS		a straigh	Edgewater, NJ		CHKD BY
ORING (	co.	Summit				BORING LOCATION		
OREMA	N .	Jeff	•			GROUND SURFACE ELEV.		DATUM
ZA ENG	6. <u>1</u>	M. Hayes				DATE START	6/7/07	DATE END 6/7/07
RILLING	TYPE						· · · · · · · · · · · · · · · · · · ·	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
.2" SPLI :ASING:	T SPOON UNLESS	DRIVEN US	ING A 140 lb. E NOTED, CA	AMPLER CONS HAMMER FALLI SING DRIVEN U	NG 30 IN	DATE TIME	UNDWATER REAE	ASING STABILIZATION 1
	-,		6	AMPLE .		e Many Engagning Trons		FOLUENER
OEPTH (FT)	FIELD	SAMPLE	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	DESCRIPTION	
W. 69	TESTING	NO.	12,01,20					
				0-2	<u> </u>	S1: Air rig to 2' through concrete slab	the short set of the second	CAP
	0.2	C4						
[		S1				]		
2.0						<u> </u>		
コ	2.3	-	24/12	2-4	19	S2: Very dense, black, fine to coarse SAND (possible hard pitch).		
ļ	2.4	S2			26	4		
ļ			<u> </u>		18	4 1		
4.0					16	S3: Very dense, black, fine to coarse SAND, some		
}	fine Gravel bottom. 0.2':	fine Gravel bottom. 0.2': Black, Silty CLAY (soft						
ŀ	0	33	<del></del>		14 25	pitch).		
6.0	0.4		ļ ———		25 14	<del>1</del>		
™┪	0		24/9	6-8	7	S4: Hard, black, Silty CLAY, little pieces of Wood		
ŀ	0		2410	<u> </u>	30	(soft pitch) (slight sheen).		
ŀ	0	S4			17	<b>1</b>	<del></del>	
8.0	0				5	1		
7	0.1		24/3	8-10	3	S5: GRAVEL, some gray, fine to coarse Sand		
Ī		S5			2	(sheen).		
		- 55			2	]		
10.0					3	<u> </u>		
7	0		24/2	10-12	5	S6: Gray, Silty CLAY, little fine Gravel (sheen).		
ļ		S6			4	4		
					2	-		
12.0				40.41	2	S7: Top 5": Very loose, black to gray, fine to coarse		
			24/7	12-14	1	SAND and fine GRAVEL (possible slag) Bottom 2":		
	0	S7	<del></del>	<b></b>	1	Soft, gray, Silty CLAY, little fine Gravel (sheen).		
14.0	0				2	<del>1</del>		
		AR SOILS		REMARKS:	<del></del>	ected from 3.5-4' for PP+40 analysis.		
		T. DENSITY			,			
0-4	- i di *	LOOSE	e je s og _e å s					
4-10	L	DOSE						
10-30	MEDIL	IM DENSE	t in a state of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o					
30-50	VER)	DENSE	<i>ڎ؊ؖڋؠڿڎؙڰڟۿ</i> ڣ					
	COHESIN	Æ SOILS	1 2 7 7 7 7					
	grander	T. CONSIST	ENCY				· ·	
<2	á	Y SOFT	er grower to the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the second contract of the secon	NOTES:				
		SOFT		11) STRATIFICAT	ION LINES REP	PRESENT APPROXIMATE BOUNDARY BETWEEN SOIL	TYPES; TRANSITIO	NS MAY BE GRADUAL.
2-4			Sec. 1825	<b>'</b>				
2-4 4-8 8-15	MEDI	UM STIFF STIFF		2) WATER LEVE	L READINGS H	AVE BEEN MADE AT TIMES AND UNDER CONDITIONS		

<b>GZA</b> 440 NII	GEOE NTH AVI	<b>NVIRONI</b> ENUE, 18T	MENTAL H FLOOR,	OF NEW YORK	ORK NY 10001		PROJECT i.Park.Edgewate		<b>NE</b> F	ORTOF	BORING NO. <u>MW.</u> SHEET 20 FILE NO. <u>41.016</u>	70 12
ENGIN	EERS A	ND SCIEN	TISTS.				The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon				FILE NO. 41.016	1318.00
BORING	CO.	Summit			,		BO	RING LOCATION				
FOREM	AN	Jeff			•		GROUND S	SURFACE ELEV.			DATUM	
GZA EN	G.	M. Hayes						DATE START	6/7/07		DATE END 6/7/0	7
DRILLIN	G TYPE											
SAMPLE	R: UNLE	SS OTHERW	ISE NOTED, S	SAMPLER CONS	SISTS OF			GRO	UNDWATER R	EADINGS	· hard so the	ne is man
A 2" SPI	.IT SPOO1	N DRIVEN US	3NG A 140 lb.	HAMMER FALL	ING 30 IN		DATE	TIME	WATER	CASING		N TIME
		S OTHERWIS R FALLING 24		SING DRIVEN L	JSING							
DEPTH	F171 -		s.	AMPLE	1.56	S7	AMPLE DESCRIPT	FION	STRATU	M I	EQUIPMENT	R
(FT)	FIELD TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	BURA	MISTER CLASSIFI	CATION	DESCRIPT	ION	INSTALLED	K
	0		24/9	14-16	10		CLAY, trace fine G					er in the Oracle, and
i	0	S8			1	1						
Ì	0	1	<u> </u>		2	{						1
16.0	0		<u> </u>		3					1		
						1	End of Boring 16	ľ				
I		S9	ļ									1
		]										
18.0												
						1						
		\$10			<u> </u>							-
		]										
20.0		1										
-												
		1				1						
		S11		<u></u>		1						
22.0		-				1						
<b>-</b>	<u> </u>	<del>                                     </del>				1						
ŀ	ļ	1				ł				ŀ		
ļ	-	S12	ļ		<u> </u>							
	ļ	4										ŀ
24.0	ļ					ļ				1		
										1		ŀ
Į .		S13				j				1		
l		1				1				Ì		1
26.0					<u> </u>	J						-
[						]						1
1		S14				]						
		314				]						1
28.0		1				1						
34.5k ¹⁰ .	GRANU	LAR SOILS	K. S. Salah	REMARKS:	·	<u>*</u>						
* ''		FT DENSITY										
	* × VER	Y LOOSE										
4-10	husery	.oosë «		[								
m.o., /	Sec. 34	a same										
10-30	42 3 1 1 3kg	UM DENSE	gig i Agrica. Lagrandia	<b>j</b>								
30-50		Y DENSE	****	1								
ride ride (S		IVE SOILS /FT. CONSIST										
15 18 186	THE SEC	J. Salam M. Sala	. Yo. 44 . 18 3	NOTES:	<del></del>							
<b>\$2</b>	Second like to	RY SOFT										
2-4	the state of the	SUFI	340	1) STRATIFICAT	ION LINES REP	RESENT APPROX	XIMATE BOUNDAR'	Y BETWEEN SOIL	TYPES; TRANSIT	IONS MAY	BE GRADUAL.	
4-8	MED	HUM STIFF		2) WATER LEVE	L READINGS H	AVE BEEN MADE	AT TIMES AND UN	IDER CONDITIONS	STATED; FLUCT	UATIONS	OF	
8-15	to Bray It in he	STIFF		GROUNDWATE	R TABLEMAY O	CCUR DUE TO O	THER FACTORS TH	HAN THOSE PRES	ENT AT THE TIME	MEASUR	EMENTS WERE	
15-80	A WE	RY STIÉF	San									
>30	Si si niger	HARD								Bo	RING NO. MW-	70
2000000	our quarrys off.	CONTRACTORS AND SEC	ne 2004-1850 - 184-1888 1880	a						PERMIT MASSING	Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	and grant fills

44	40 NIN	ITH AVE	NUE, 18T	H FLOOR, TISTS	<b>OF NEW</b> NEW YORK,	NY 10001	PROJECT i Park Edgewater 45 River Rd Edgewater, NJ	REF	F	NG NO. MW-71 SHEET 1 of 2 ILE NO. 41.0161318.00 HKD BY
В	ORING	CO.	Summit	N. 123-05 (A.A., 1115-161)	160 kW u dos Petr A		BORING LOCATION	namen na jazoni na na 11	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	<u> </u>
FC	OREMA	N .	Jeff				GROUND SURFACE ELEV.			DATUM
G	ZA EN(	3.	M. Hayes			•	DATE START	6/7/07	DA	TE END 6/7/07
Di	RILLIN	G TYPE					F	500 PHO 200 PHO 200 PHO	0.000.000.000.0000.000	
					SAMPLER CON		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UNDWATER R		
^	2" SPL	IT SPOON	I DRIVEN US	ing a 140 ib.	HAMMER FALL	ING 30 IN	DATE	WATER	CASING	STABILIZATION TIME
			OTHERWIS		SING DRIVEN	USING				
p	EPTH	CICL D		S.	AMPLE	J. Sand	SAMPLE DESCRIPTION	STRATU	IM	EQUIPMENT R
	(FT)	FIELD TESTING	SAMPLE NO	PENREC	DEPTH (FT)	BLOWS/6"	BURMISTER CLASSIFICATION	DESCRIPT	NOT	INSTALLED K
Γ		2.1		10/10	0-2	30	S1: Very dense, black, fine to coarse SAND, some hard pitch, little Silt.			CAP
1		11.2	S1			50/4	rane proof, mue out.		1	
1	2.0						S2: Very dense, black, fine to coarse SAND and			
		0.5		24/15	2-4	35	hard pitch.			
		1.2 8.3	S2			35 17	1			
L	4.0	0.3				12			ŀ	
	```	35.3		24/16	4-6	4	S3: Very stiff, black, Silty CLAY, some soft pitch.		l	
		18.5	S 3			12	Bottom 7": Red SAND and StLT (slightly wet).	V		
ı		53.2				20				
N,	6.0			<u> </u>		12				
"	-	32.2		24/7	6-8	12	S4: Stiff, black, Silty CLAY, some soft pitch.			
l		14.6	-			8				
l			\$4			5]			
	8.0 _					1				
		10.4		24/14	8-10	5	S5: Top 8": Very stiff, black, Silty CLAY and soft pitch. Bottom 6": Very stiff, red, fine to coarse			
l		11.3	S5			12	SAND, trace Silt (trace brick and glass fragments).		ľ	
ŀ		8.1				16				
1	10.0					20	SS: Hard Mask fine to come SAND little vices		ļ	
		3.6		24/9	10-12	6	S6: Hard, black, fine to coarse SAND, little pieces of hard pitch, trace Silt.			
		6.2	S6			12				
1.	12.0					36 14	1			
		1.9		24/3	12-14	30	S7: Very dense, brown, fine to coarse SAND, little			
		1.3		24.5	14-17	50/4	Silt (slight sheen, wet).			
			\$7							
	14.0	 					1			
			AR SOILS T. DENSITY		REMARKS:					
r	0-4		Y LOOSE	Name de la colo						
	4-10		OOSE							
1	10-30	MEDIL	JM DENSE	pa si						
3	30-50	VER)	DENSE							
		COHESIN	/E SOILS	er general seri						
L	Çir.		T, CONSIST	ENCY						· · · · · · · · · · · · · · · · · · ·
7	<2		Y SOFT		NOTES:					
ı	2-4		SOFT		l '		RESENT APPROXIMATE BOUNDARY BETWEEN SOIL TO			RADUAL.
- 1	4-8		UMSTIFF		! '		IVE BEEN MADE AT TIMES AND UNDER CONDITIONS S			TO WERE
- 1	8-15 Is-20		STIFF			K IABLEMAY OC	CUR DUE TO OTHER FACTORS THAN THOSE PRESEN	NIAI IME IIME	MEASUREMEN	IS WERE
- 1	5-30 >30		Y STIFF IARD		MADE.				BORING	NO. MW-71

440 NII	SEOEN TH AVE	IVIRONI ENUE, 18T	MENTAL H FLOOR,	OF NEW YORK,	ORK NY 10001	PROJECT	REPORT	OF BORING NO. MW- SHEET. 2 o	7) (2
ENGIN	EERS A	ND SCIEN	rists.			Park Edgewater 45 River Rd Edgewater, NJ		CHKD BY	
ORING	co.	Summit				BORING LOCATION_			
FOREMA	AN .	Jeff				GROUND SURFACE ELEV.		DATUM	
GZA EN	3.	M. Hayes				DATE START 6	3/7/07	DATE END 6/7/0	7
DRILLING	G TYPE							-	
		SS OTHERW	ISE NOTED, S	SAMPLER CONS	SISTS OF	MATERIAL STATE OF STA	UNDWATER READI	NGS	
A 2" SPL	IT SPOON	I DRIVEN US	ING A 140 lb. E NOTED, CA	HAMMER FALLI SING DRIVEN L	NG 30 IN	DATE		SING STABILIZATIO	N TIMI
DEPTH	FIELD	- <u>- 1</u> 1 1 1 1 1	S Sec. S	AMPLE	124	SAMPLE DESCRIPTION	STRATUM	EQUIPMENT	R
(FT)	TESTING	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6*	BURMISTER CLASSIFICATION	DESCRIPTION	INSTALLED	K
1			24/0	14-16	8	S8: No recovery (wood in tip) (sheen coating outside of spoon).			
		S8			10	1 1			
					8	j			-
16.0					4	<u> </u>			
_	48.6		24/4	16-18	12	S9: Hard, brown Silty CLAY (sheen).			
1	10.0		L-7/-7	,,,,,,	17	1 1			
1		S 9	 			† l			
					18	-			1
18.0			1		13	S10: Very dense, gray, fine to coarse SAND and			1
	6.7		24/7	18-20	12	fine GRAVEL.			į
		S10			15	4			1
ŀ					17	<u> </u>			ŀ
20.0					7				
4 -			24/2	20-22	23	S11: Fine GRAVEL.			
7		1			28	1			
		S11			7	1			
22.0					17	1			
	 					S12: Hard, black Silty CLAY, some soft pitch.			-
ı	2.4	1	24/7	22-24	37	+			
	3.1	S12			42	4			
l	<u> </u>	l			10	4			ı
24.0					4	CAO. Madisura allet according to the			1
	0.0	j	24/24	24-26	3	S13: Medium stiff, gray, Silty CLAY.			- 1
I	0.0	S13			3	<u></u>			- 1
1	0.2] ""			4				1
26.0	0.1	1			6	7			- 1
-	T					End of Boring 26.0'			
1		1				1			
1	—	S14		 		1 1			1
	-	1	 		 	-{			
28.0	ion knim	40.000.0	1	DEMARKS.	·				
2 136-565 2 2 2 3 4 4	BLOWE	.AR SOILS FT. DENSITY	okova an Komponi	REMARKS:					
1	man morringe time	20 Brank 100 5 2 5 1 5 1 5 1 5 1	Alter Co.	1					
0.4	*** 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y LOOSE	A MARKET IN		,				
4-10	N/4 A 14	OOSE		1					
10.30	MEDI	IM DENSE		1					
30-50	VER	Y DENSE	Branch States						
		VE SOILS	and the state of t						
4 000	7 7 7		ENCY			The state of the s			
42	100/02/1	ow eners.		NOTES:					
2-4		SOFT		1) STRATIFICAT	TON LINES REP	RESENT APPROXIMATE BOUNDARY BETWEEN SOIL T	YPES; TRANSITIONS	MAY BE GRADUAL.	
4.8	MED	IUM STIFF		2) WATER LEVE	L READINGS H	IAVE BEEN MADE AT TIMES AND UNDER CONDITIONS	STATED; FLUCTUAT	IONS OF	
	313A	emer		1		OCCUR DUE TO OTHER FACTORS THAN THOSE PRESE			
0010						TOTAL TO OTHER FROTONO HERM HIGGE FRESE	TO THE PROPERTY		
10400	as a well	on a mark		MADE.			Zi.c.	File of significant	XX 3
>30	*****	HÄRD	## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					BORING NO. MW-	71

VEER	S AND SCIE	NIISTS			Edgewater, NJ	or to be a	7 - 1 t - 1 - 1	CHKD B		Ź
co.		Summit		-	BORING LOCATION					-
<i>I</i> AN		Joe Neiri			GROUND SURFACE ELEV.		.	DATUM		-
NGINE	ER -	M. Hayes			DATE START	6/8/07		DATE END 6/8/07		_
.ER: G	eoprobe TM - 2"	diameter, 60-inc	h long, clear ace	tate liner, installe	d with a hydraulic hammer.					
TH.		SAMPLE	,		SAMPLE DESCRIPTION	STRA		EQUIPMENT	FIELD	Γ
7)	SAMPLE NO	PEN/REC	DEPTH (FT)	В	URMISTER CLASSIFICATION	DESCRI	PTION	INSTALLED	TESTING	l
	.,,0			Air rig through c	oncrete slab to 2' bgs.			CAP		t
	!									l
				1						
				i						
					m, fine to coarse SAND, little Silt (wet).					
		3/1.2	2-5		ick fine to medium SAND, little Silt (some rial, possible slag/hard pitch).				0	١
									0	Ì
	1			1						l
				1						
				1						
				S2: Gray, mediu	um to coarse SAND, some Silt (wet)					
		5/1	5-10	-						
			ļ	-						ļ
										١
			<u> </u>	1						ļ
,	2		ļ							
			<u> </u>	-						
				ł					Š	
		<u> </u>		-		i 			}	l
				-					0	ı
			 	S3: Grav. medii	um to coarse SAND, some Silt (wet) (wood at				0	ı
		5/0.8	10-15	tip).	ann to could be at b, come one thou the					l
				-{						l
			ļ	4						١
			<u> </u>	4		İ				
	3		<u> </u>			 -				١
				4						١
				4						Ì
				<u> </u>						ŀ
					Trad of Budge 450				2.2	ŀ
	<u> </u>		1		End of Boring 15'				23.5	Ĺ
KS:		1) Sample colle	ected from 4.5-5°	for PP+40 analys	sis.					
		2) Refusal at 1	5'.							
		3) Highest PID	from a piece of v	wood at the tip.						
										_
ļ	1) STRATIFIC	CATION LINES F	REPRESENT AP	PROXIMATE BO	UNDARY BETWEEN SOIL TYPES; TRANSIT	TIONS MAY BE G	RADUAL.			



IPark Edgewater LLC
Supplemental Remedial Investigation Report 45 River Road Edgewater, NJ

BORING NO.: **SED-16**

SHEET: 1 of 1 PROJECT NO: 41.0161318.00

CHECKED BY: MKH

GZA Inspector: A. Hough Drilling Co.: Aqua Survey Foreman: Mark Padover Type of Drill Rig:

Drilling Method: Vibracore

Auger/Casing: O.D./I.D Dia (in.): Boring Location (Lat./Long.): Ground Surface Elev. (fL):

Datum:

Final Boring Depth (ft.): Date Start/Finish:

8/2/2007 - 8/2/2007

Groundwater Depth (ft.) Sampler Type: SS Sampler I.D. (in.): 2.0 Sampler Length (in.): 24 Date Water Depth Stab. Time Sampler used throughout unless otherwise noted on the log.

		S	ample		<u> </u>	 ·	S	논		Stratum	
epth (ft)	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)	Sample Description Modified Burmister		OSC	Зета	Ele (∓)	Stratum Description (NYCBC)	Depth
-	S-1	0-10	10/8.2	(ppm) 0	S-1 : Dark gray, Silty CLAY.		СН	1-2	Elev. (ft.)		
5_							:			CLAY	
- - - 0 _									·		
-					End of exploration at 10 feet.						
- - 5 _ -					·						
_ 0											
5 _											
	1										
0	1										

1-2.

REMARKS

1. Sample collected 0-0.5 feet bgs.

2. Surface water sample collected at this location.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

IPark Edgewater LLC Supplemental Remedial Investigation Report 45 River Road Edgewater, NJ BORING NO.: SED-17 SHEET: 1 of 1

10

PROJECT NO: 41.0161318.00 CHECKED BY: MKH

GZA Inspector: A. Hough Drilling Co.: Aqua Survey Foreman: Mark Padover Type of Drill Rig: Drilling Method: Vibracore Auger/Casing: O.D./I.D Dia (in.):

Boring Location (Lat./Long.): Ground Surface Elev. (ft.): Final Boring Depth (ft.):

Date

Datum:

Stab. Time

Water Depth

Sampler Type: SS Sampler I.D. (in.): 2.0 Sampler Length (in.): 24 Date Start/Finish: 8/2/2007 - 8/2/2007

Groundwater Depth (ft.)

Time

Sampler used throughout unless otherwise noted on the log.

			ample		wise noted on the log.	I	L	~	¥		Stratum	
epth (ft)	No.	Depth (ft.)		PID (ppm)	Sample Description Modified Burmister			USCS	Remar	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
5_	S-1	0-10	10/8.9	0	S-1 : Dark gray, Silty CLAY.			СН	1-2	Elev. (ft.)		
10											CLAY	1
10 -					End of exploration at 10 feet.				H			
15 _												
20 _												
25 _	- -					·						
30	Į		İ						1	1		

1-2.

REMARKS

1. Sample collected at 0-0.5 feet bgs.

2. Surface water samples collected at this location.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



GZA GeoEnvironmental, Inc. Engineers and Scientists

IPark Edgewater LLC Supplemental Remedial Investigation Report 45 River Road Edgewater, NJ

BORING NO.: SED-18 SHEET: 1 of 1

PROJECT NO: 41.0161318.00 CHECKED BY: MKH

GZA Inspector: A. Hough Drilling Co.: Aqua Survey Foreman: Mark Padover Type of Drill Rig:

Drilling Method: Vibracore Auger/Casing:

Boring Location (Lat./Long.): Ground Surface Elev. (ft.):

Datum:

Stab. Time

Final Boring Depth (ft.): Date Start/Finish: O.D./I.D Dia (in.):

10 8/2/2007 - 8/2/2007

Sampler Type: SS Sampler I.D. (in.): 2.0 Sampler Length (in.): 24

Groundwater Depth (ft.) Date Time Water Depth

Sampler used throughout unless otherwise noted on the log.

						L		· ·			
Depth		<u> </u>	ample		Sample Description		୪	ar	₹ ∵	Stratum	Depth (ft.)
Depth (ft)	N.	Depth	Pen./	PID (ppm) 0	Sample Description Modified Burmister		nscs	l ie	Elev. (ft.)	Stratum Description (NYCBC)	ਙਵ
	No. S-1	(ft.) 0-10	Rec. 10/9.2	(ppm)	S-1 : Dark gray, Silty CLAY, trace pieces of she	dia.	CH	12	<u> </u>	(111000)	
	<u>ا-</u> ت	0-10	10/9.2	U	13-1. Daik gray, Silty OLAT, trace pieces of sile	:110.	1011	١'	l		
-			i I				1	1	1		
-								l	ł		
	}	1	1 1				i	l			
-								1	ļ		
-	1	}	!					i	i		
5 _		1					1	l		OI 41/	
		Ì] }							CLAY	
-	ł	1]				1				
_			1				1	1			
		1					1	1			
-	1		1				-	1	1		
	1	j	} }				1	i	ŀ		
10 _			1					1			1
	†				End of exploration at 10 feet.			1			•
	4								ļ		
	1		1						1		
•	1	1	1				1	1	1		
	ł	1					ł		1		
]							i			
15 _							1		ļ		
15 _	┨	1			İ			1			
	_						1	1			
	1	1					1				
	1	1	1				ļ.	İ			
	4						į		1		
	1		1				l l		1		
	1			1			1	1	·		
20 _	4	ļ.					- 1	1			
	1	į.		1			1	1	1		
	1			}			ŀ				
	4	1						1			
		Ì							1		
	1						i				
	4			ļ				1	1		
25	ļ			l				1	1		
-		1		1			i		1		
	4		1				l l		1		
]	1	1					1	1		
	1	1	1				1				
	4										
]										
20	1	1	1								
30	—			<u> </u>	<u></u>						

1. Sample collected at 0-0.5 feet bgs.

REMARKS

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



IPark Edgewater LLC Supplemental Remedial Investigation Report 45 River Road Edgewater, NJ

BORING NO.: **SED-19** SHEET: 1 of 1

PROJECT NO: 41.0161318.00 CHECKED BY: MKH

GZA inspector: A. Hough Drilling Co.: Aqua Survey Foreman: Mark Padover

Drilling Method: Vibracore Auger/Casing: O.D./I.D Dia (in.):

Ground Surface Elev. (ft.): Final Boring Depth (ft.): Date Start/Finish:

Boring Location (Lat/Long.):

Datum:

Type of Drill Rig:

10 8/1/2007 - 8/1/2007

0		- 1201221	Groundw	ater Depth (ft.))	
Sampler Type: SS Sampler I.D. (in.): 2.0		Date	Time	Water Depth	1 Stab. Ti	me
Sampler Length (in.): 24						
Sampler used throughout unless otherwise noted of	n the log.	}				
Depth Pon / PID	Sample Description		SSS	ft.)	Stratum Description	tt.

		S	ample			တ္သ	ark		Stratum	₽_
Deptr (ft)		Depth (ft.)	Pen./ Rec.	PID	Sample Description Modified Burmister	ည်း	Ë	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
(1)	No. S-1	(ft.)	Rec.	(ppm)	O. 1 - Dad and City O. AV Anna San Count	2	Α,		(NTCBC)	
	S-1	0-10	10/8.9	0	S-1 : Dark gray, Silty CLAY, trace fine Gravel.	Un	1-3			1
'	1									l
1	1									- 1
١.	ļ	}	l i				l			i
1	l		1 1					1		
5_	1							ĺ		
"-	1	1				1	ŀ	1	CLAY	
İ	1	Ì						!		1
	1]								- 1
	1									l
	1					1				ľ
1	4	ļ	1			ļ	1	1		
10	<u> </u>		<u> </u>			<u> </u>	L.,	<u> </u>		10
					End of exploration at 10 feet.	Ì		1		Ì
1	1	Ì		ì				ļ		į
	4	ļ	1			İ		1		į
	1		1	ļ		İ		l		1
		ļ	1							
145	1		1					ļ		
15	┥		1			1		1		
	1		1							
1		1					1		•	1
Ì	1	1	1	1						
1	1	1	1			1	1	1		
	4	1		1		1	1			
20				Ì	·	1		1		
	7		1	1			1	1		
-	1		l l	İ				1		
1	4	1		1						
ł		1	1	I						
ļ	1		İ			i		1		
Ì	1	1	ţ			1				
25	4	1	İ			1				
]	İ						1		
	1		1							
-	1	1	1							
	4	1				1	1	1		
]	1								
30]									
<u> </u>			_ (

1-3.

1. Sample collected at 0-0.5 feet bgs.

- 2. Surface water sample collected at this location.
- 3. Duplicate surface water sample collected.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: SED-19

REMARKS



GZA GeoEnvironmental, Inc. Engineers and Scientists

IPark Edgewater LLC Supplemental Remedial Investigation Report 45 River Road Edgewater, NJ

BORING NO .: SED-20 SHEET: 1 of 1

PROJECT NO: 41.0161318.00 CHECKED BY: MKH

Groundwater Depth (ft.)

GZA Inspector: A. Hough Drilling Co.: Aqua Survey Foreman: Mark Padover Drilling Method: Vibracore Auger/Casing:

Boring Location (Lat./Long.): Ground Surface Elev. (ft.): Final Boring Depth (ft.): Date Start/Finish:

Date

Datum:

Stab. Time

Type of Drill Rig:

O.D./I.D Dia (in.):

10

Time

8/1/2007 - 8/1/2007

Water Depth

Sampler Type: SS Sampler I.D. (in.): 2.0 Sampler Length (in.): 24

oler used throughout unless otherwise noted on the log

Samp	oler us			nless other	wise noted on the log.	<u> </u>		12			
epth (ft)	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)	Sample Description Modified Burmister		nscs	Remar	Elev. (ft.)	Stratum Description (NYCBC)	Depth
-	S-1	0-10	10/8.4	0	S-1: Dark gray, Silty CLAY, trace fine Gravel.		СН	1-2	Elev. (ft.)		
5_										CLAY	
- - 10 _				··_ ··· -·	End of exploration at 10 feet.						
15 _											
20 _										·	
25 .											
30	-										

1-2.

1. Sample collected from 0-0.5 feet bgs.

2. Duplicate sediment sample collected from 0-0.5 feet bgs.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



GZA GeoEnvironmental, Inc. Engineers and Scientists

IPark Edgewater LLC Supplemental Remedial Investigation Report 45 River Road Edgewater, NJ

SED-21 BORING NO.: SHEET: 1 of 1

PROJECT NO: 41.0161318.00

CHECKED BY: MKH

10

GZA Inspector: A. Hough Drilling Co.: Aqua Survey Foreman: Mark Padover Type of Drill Rig:

Drilling Method: Vibracore

Auger/Casing: O.D./I.D Dia (in.):

Boring Location (Lat./Long.): Ground Surface Elev. (ft.): Final Boring Depth (ft.):

Datum:

Date Start/Finish:

8/1/2007 - 8/1/2007

Groundwater Depth (ft.) Sampler Type: SS Sampler I.D. (in.): 2.0 Water Depth Date Time Stab. Time Sampler Length (in.): 24

Sampler used throughout unless otherwise noted on the log.

		S	ample	· · · · · · · · · · · · · · · · · · ·		S	돈		Stratum	
Depth (ft)	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)	Sample Description Modified Burmister	P USCS	Rema	(ft.)	Stratum Description (NYCBC)	Depth (ft.)
_	S-1	0-10	10/9.6	0	S-1 : Dark gray, Silty CLAY, trace fine Gravel.	СН	1-2			
-										
	ļ	1								
5 _										
٥ <u>-</u>									CLAY	
	-							ļ		
10 _	1									
10_	1	<u> </u>			End of exploration at 10 feet.					
]									
	1									
45	1									
15	1			<u> </u>			ļ			
]									
								İ		
	-									
20	1							1		
	1									
]									
	-									
25	4									
	1									
	1									
]									
30		1								

1-2.

REMARKS

1. Sediment sample collected from 0-0.5 feet bgs.

2. Surface water sample collected at this location.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



GZA GeoEnvironmental, Inc. Engineers and Scientists IPark Edgewater LLC Supplemental Remedial Investigation Report 45 River Road Edgewater, NJ BORING NO.: SED-23 SHEET: 1 of 1

PROJECT NO: 41.0161318.00 CHECKED BY: MKH

8/2/2007 - 8/2/2007

Water Depth

GZA Inspector: A. Hough Drilling Co.: Aqua Survey Foreman: Mark Padover Type of Drill Rig: Drilling Method: Vibracore Auger/Casing: O.D./I.D Dia (in.):

Boring Location (Lat./Long.): Ground Surface Elev. (ft.): Final Boring Depth (ft.): Date Start/Finish:

Date

Datum:

Stab. Time

Sampler Type: SS Sampler I.D. (in.): 2.0 Sampler Length (in.): 24 Groundwater Depth (ft.)

10

Time

Sampler used throughout unless otherwise noted on the log.

		S	ample			To	ž		Stratum	<u>_</u>
Depth (ft)	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)	Sample Description Modified Burmister	nscs	l oz	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	S-1	0-10	10/8.2	0	S-1 : Dark gray, Silty CLAY, trace pieces of shells.	СН	1-2			
]						1				
_										
_										
5_						1			CLAY	
1								İ		
-					·					
-	Ì									
- _ 10										
					End of exploration at 10 feet.					
_										
-										
15 _	-									
	1					İ				
	-									
•	1							1		
20 _	1									
_]	ļ								
	-									
	4									
25 _	4									
	1									
	1									
	1									
30	1	1								

1-2.

1. Surface water collected at this location.

2. Sample collected at 0-0.5 feet bgs.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



GZA GeoEnvironmental, Inc. Engineers and Scientists

IPark Edgewater LLC Supplemental Remedial Investigation Report 45 River Road Edgewater, NJ

SED-24 BORING NO.: SHEET: 1 of 1

PROJECT NO: 41.0161318.00 CHECKED BY: MKH

GZA Inspector: A. Hough Drilling Co.: Aqua Survey Foreman: Mark Padover Type of Drill Rig:

Drilling Method: Vibracore

Boring Location (Lat./Long.): Ground Surface Elev. (ft.):

Datum:

Auger/Casing: O.D./I.D Dia (in.):

Final Boring Depth (ft.): Date Start/Finish:

3.9 8/1/2007 - 8/1/2007

Sampler Type: SS Sampler I.D. (in.): 2.0 Sampler Length (in.): 24

Groundwater Depth (ft.) Date Time Water Depth Stab. Time

Sampler used throughout unless otherwise noted on the log.

					vise noted on the log.	<u> </u>	L					
Depth (ft)	No.	Depth (ft.)	ample Pen./ Rec.	PID (ppm)	Sample Description Modified Burmister			nscs	Remark	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
-	S-1	0-3.9	3.9/9.6	(ppm) 0	S-1 : Dark gray, Silty CLAY, little fine Gravel.			СН	1		CLAY	
5_					End of exploration at 3.9 feet.							3.9
•												
10 _												
15 _	4											
20												
							į					
25	1											
25	1											
	4											
30	1											

1. Sample collected from 0-0.5 feet bgs.

REMARKS

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated.

Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



IPark Edgewater LLC Supplemental Remedial Investigation Report 45 River Road Edgewater, NJ

BORING NO.: **SED-25** SHEET: 1 of 1 PROJECT NO: 41.0161318.00 CHECKED BY: MKH

GZA inspector: A. Hough Drilling Co.: Aqua Survey Foreman: Mark Padover

Drilling Method: Vibracore

Boring Location (Lat./Long.):

Datum:

Type of Drill Rig:

Auger/Casing: O.D./I.D Dia (in.):

Ground Surface Elev. (ft.): Final Boring Depth (ft.): Date Start/Finish:

Date

10 8/1/2007 - 8/1/2007

Sampler Type: SS Sampler I.D. (in.): 2.0 Sampler Length (in.): 24 Groundwater Depth (ft.) Water Depth Stab. Time

Time

Sampler used throughout unless otherwise noted on the log.

					T	<u> </u>	<u> </u>		×		Ctroture	
Depth (ft)	No.	Depth (ft.)	Pen./ Rec.	PID (ppm)	Sample Description Modified Burmister			nscs	Remar	Elev. (ft.)	Stratum Description (NYCBC)	Depth (ft.)
	S-1	0-10	10/9.1		S-1 : Dark gray, Silty CLAY.		- 1	СН	1			_
-				0								
-	ł			0			İ					
-	1			0			ł					
	ł	1		11.7								
5_				3.0			1				CLAY	
]	İ		5.6								
Ι.				10.4								
١.	<u>j</u>			4.5								
'	}			0								
10_	1	1		Ö						l		10
"-	1				End of exploration at 10 feet.							
	1						1					
	1		1	1			1					
1	-		1				ł					
1	-						Į		1			
15_	4						1					
İ]								1			
]	ł	1									
1	1								1	1		
}	1	1										
20	1								1			
20.	1	1			·		l			ļ		
	4		1	1								
	4						İ		1			
	1				, in the second				ł			
				1								
25	╛			1								
-		,										
	1	1										
	1						į					
	1											
-	+						ļ					
30				1					Щ.	11		

1. Sheen around boat when sample collected.

REMARKS

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated.
Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

GeoEnvironmental, Inc. Engineers and Scientists

Sampler used throughout unless otherwise noted on the log.

IPark Edgewater LLC Supplemental Remedial Investigation Report 45 River Road Edgewater, NJ

SED-26 BORING NO.: SHEET: 1 of 1

PROJECT NO: 41.0161318.00 CHECKED BY: MKH

GZA inspector: A. Hough Drilling Co.: Aqua Survey Foreman: Mark Padover Type of Drill Rig:

Drilling Method: Vibracore Auger/Casing: O.D./I.D Dia (in.):

Boring Location (Lat./Long.): Ground Surface Elev. (ft.):

Datum:

Sampler Type: SS Sampler I.D. (in.): 2.0 Sampler Length (in.): 24 Final Boring Depth (ft.): Date Start/Finish: 8/1/2007 - 8/1/2007

> Groundwater Depth (ft.) Date Time Water Depth Stab. Time

Sample Stratum Depth (ft.) Depth (#) (#) Sample Description Description (NYCBC) Depth Pen./ PID (ft) **Modified Burmister** No. (ft.) Rec. (ppm) CH S-1 0 S-1: Dark gray, Silty CLAY, trace fine Gravel. 0-10 10/8 5 CLAY 10 1**d** End of exploration at 10 feet. 15 20 25

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

GZA GEOENVIRONI	VENTAL OF N	IEW YORK		Q.(4)	noject in Section (1996). Edgewater (1994). Ives Road (1994). Ivalet N.L.	OLAGEM IVE	· · · / · · · GZA	17MW-54 - 15
440 NINTH AVENUE, 1811	HFLOOR, NEW Y	ORK, NY 10001		Lpark	Edgewater	SHEET		GF-1
NGINEERS AND SCIEN	TISTS			Edge	water NJ	BHOSY	100	MKH
			an comment of the second of th					
OLUMN OF WATE	DIN WELL:				SCREENED INTER	VAL:		2-16'
Depth to Bottom (ft) -		Level (ft)			PURGE DEPTH (ft)			7.4
= 16.30	-	2.41			PURGE RATE (ml/			00-500
Water Column (T):	13.89	(ft)			SAMPLER:			DW
					DATE SAMPLED:	,	11/4	28/2006
WATER QUALITY:							<u> </u>	
					T			
Time	Elapsed Time	Depth to Water (ft)	рН	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (℃)	ORP
1240	0	2.41	8.15	2.11	192.0	0.15	16.62	-255
1245	5	2.64	8.10	2.10	128.0	0.00	16.74	-266
1250	10	2.60	8.08	2.08	82.3	0.00	16.87	-278
1255	15	2.66	8.10	2.05	50.1	0.00	16.84	-289
1300	20	2.65	8.09	2.04	44.6	0.00	16.90	-291
1305	25	2.62	8.09	2.04	38.0	0.00	16.97	-295
1310	30	2.69	8.10	2.02	31.9	0.00	16.91	-298
1315	35	2.65	8.10	2.01	26.3	0.00	16.95	-299
1320	40	2.61	8.09	2.00	26.8	0.00	17.01	-301
1325	45	2.69	8.10	1.99	24.1	0.00	16.97	-303
					<u> </u>			
					<u> </u>			
	 				-	-		
						 		1
				<u> </u>				
						<u> </u>		
					<u> </u>	† · · · · · · · · · · · · · · · · · · ·		
					1			
					1	1		
				ļ	_			
						ļ		
				ļ		ļ		
			ļ			<u> </u>		
		<u> </u>						
		<u> </u>						
	<u> </u>	ļ			-			
	<u> </u>	<u> </u>		ļ		<u> </u>		
	<u> </u>	ļ						
	 	 	ļ					

NOTES AND OBSERVATIONS: Clear water in tubing after 10 minutes; at 1305 10 gallons purged; sample taken at 1330 for PCBs.

GZA GEOENVIRO	NMENTAL OF	NEW YORK		2.23.4	roject Edgewate ver Road			M-Ø
440 NINTH AVENUE M ENGINEERS AND SCIE	ILH FLOCH CNEW	PURKNARY 1000 III.		45 R	verRoad	FILENO	41.0	161318 QUI
ENGINEERS AND SCIE	NTISPS			Bdge	water NJ	снкову.		ики селька
							<u>,, </u>	
COLUMN OF WAT	ER IN WELL:				SCREENED INTER	VAL:		2-13'
Depth to Bottom (ft					PURGE DEPTH (ft)			7.6
= 13.0 Water Column (T):		(ft)			PURGE RATE (ml/ SAMPLER:	100-500 DW		
Water Column (1).	10.53	(16)			DATE SAMPLED:			23/2006
WATER QUALITY	<u> </u>							
Time	Elapsed Time	Depth to Water (ft)	рН	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (℃)	ORP
1205	 	2.61	13.32	9.150	339.0	0.51	17.19	-450
1210	5	3.51	13.10	5.990	58.5	0.00	16.16	-340
1215	10	3.71	12.94	6.820	36.0	0.00	16.83	-388
1220	15	4.04	12.86	7.480	24.4	0.00	17.77	-429
1225	20	4.09	12.79	8.190	62.1	0.00	19.01	-453
1230	25	4.39	13.25	8.420	26.1	0.00	18.43	-458
1235	30	4.45	12.98	8.510	134.0	0.00	18.38	-472
1240	35	4.56	13.21	8.800	45.4	0.00	19.18	-488
1245	40	4.70	13.14	9.050	73.3	0.00	18.88	-488
1245	45 50	4.72 4.73	13.18 13.23	9.120 9.190	72.0 67.7	0.00	18.81 18.91	-494 -479
1250 1255	55	4.73	13.40	9.780	31.1	0.00	19.39	-501
1305	60	5.55	13.41	12.600	48.3	0.00	18.85	-500
1310	65	5.95	13.48	13.200	48.5	0.00	19.12	-510
1315	70	6.22	13.48	13.500	53.8	0.00	18.82	-505
1320	75	6.59	13.41	13.400	161.0	0.00	18.96	-507
1330	80	6.90	13.06	13.000	284.0	0.00	19.25	-489
1335	85	7.49	11.28	12.600	93.4	0.00	19.63	-439
1340	90	7.29	10.27	13.100	85.3	0.00	18.80	-430
						<u></u>		
								×
						ļ		
				<u> </u>				
			 			<u> </u>		
								
						ļ		
			L .					
		ļ		<u> </u>		 		
		ļ			ļ	ļ		
					 	 		
		<u> </u>						
l .	5	l	1	1	1	I	1	l

NOTES AND OBSERVATIONS: Sample taken at 1530 for PP+40.

GZA GEDENVIRO 40 MNTH AVENUE ENGINEERS AND SO	DIMENTAL OF BITH LLOCK NEW EXTERNS	NEW YORK YORK, NY 10001		i pari dis	Vojea - 18- Edgewater Iver Rosa - 18- water NJ - 18-	WELFIE SHEET FIE NO CHICO BY	GZA	97/AW-56. 107-1 161348/00 MKH
COLUMN OF WA Depth to Bottom (to	ft) - Static Water	• •			SCREENED INTER PURGE DEPTH (ft)) :		2-14' 8.9
= 14. Water Column (T)		3.96	-		PURGE RATE (ml/ SAMPLER:	min):	10	00-500 DW
Water Column (1)	10.54	_(11)			DATE SAMPLED:		11/	27/2006
								2172000
WATER QUALITY	r:							
Time	Elapsed Time	Depth to Water (ft)	рН	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (℃)	ORP
915	0	3.97	13.23	4.45	973.0	0.9	17.15	-456
920	5	6.88	12.78	3.98	101.0	0.0	17.83	-466
925	10	6.86	11.57	3.81	63.5	0.0	17.95	-442
930	15	6.82	10.13	3.89	29.2	0.0	18.15	-428
935	20	6.85	9.80	3.96	23.0	0.0	18.24	-424
940	25	6.83	9.30	4.03	21.5	0.0	18.64	-404
945	30	6.88	9.80	3.98	13.5	0.0	18.48	-435
950	35	6.90	9.45	4.02	9.5	0.0	18.29	-421
1000	40	6.93	9.23	4.03	6.1	0.0	18.39	-411

4.04

4.06

4.04

4.06

4.09

4.90

4.11

4.12

4.12

4.13

4.13

4.13

6.1

6.9

182.0

28.1

22.1

29.1

29.0

10.6

6.6

13.4

5.1

6.1

5.1

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

18.39

18.46

18.37

18.39

18.52

18.41

18.41

18.47

18.47

18.52

18.52

18.52

18.60

-411

-401

-401

-407

-403

-406

-420

-410

-409

-410

-412

-415

-415

NOTES AND OBSERVATIONS:

1005

1010

1015

1020

1025

1030

1035

1040

1045

1050

1055

1100

45

50

55

60

65

70

75

80

85

90

95

100

6.92

6.55

4.90

4.51

4.33

4.40

4.43

4.38

4.35

4.32

4.25

4.22

8.96

8.80

8.83

8.53

8.38

8.56

8.32

8.22

8.19

8.18

8.21

8.22

At 1100 24 gallons purged from well; sample taken at 1100 for As and Pb.

IH AVENUE, 18	IH FLOOR, NEW	ORK NY 10001		1,000 45 i	roject Edgewater Ner Roed Water NJ	TO FILE NO.	41.01	61318.00		
ers and scie	KTISTS	in the second of		Edge	water Nu	I HEHKD BY		VKH.		
MN OF WATI	ER IN WELL:			·	SCREENED INTER	VAL:	2	2-15'		
	- Static Water	Level (ft)			PURGE DEPTH (ft)	11.7				
15.00	<u>)</u> -	5.79	•		PURGE RATE (ml/	min):	100-500			
Column (T):	9.21	(ft)			SAMPLER:		DW			
					DATE SAMPLED:		11/2	27/2006		
R QUALITY:	1	F	I		1					
Time	Elapsed Time	Depth to Water (ft)	рН	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	OR		
1225	0	5.80	8.43	3.44	-5.0	0.0	15.82	-24		
1230	5	NA	NA	NA	NA	NA NA	NA	N/		
1235	10	6.30	8.50	2.44	188.0	0.0	15.50	-29		
1240	15	6.28	8.40	2.44	92.0	0.0	15.89	-31		
1245	20	6.33	8.39	2.36	68.1	0.0	16.35	-32		
1250	25	6.35	8.29	2.40	161.1	0.0	16.29	-33		
1255	30	5.93	8.10	2.45	134.0	0.0	16.38	-33		
1300	35	5.94	7.86	2.48	15.9	0.0	16.49	-35		
1305	40	NA	NA	NA	NA NA	NA	NA NA	N/		
1310	45	NA	NA	NA NA	NA NA	NA	NA NA	N/		
1315	50	5.95	7.72	2.48	9.1	0.0	16.49	-35		
1320	55	5.95	7.69	2.48	26.5	0.0	16.56	-36		
1325	60	5.93	7.65	2.49	7.1	0.0	16.57	-36		
1330	65	5.96	7.63	2.48	8.3	0.0	16.50	-36		
1335	70	5.97	7.60	2.49	31.4	0.0	16.53	-36		
1340	75	5.94	7.58	2.49	8.5	0.0	16.57	-37		
1345	80	5.94	7.57	2.48	6.4	0.0	16.63	-37		
1350	85	5.95	7.57	2.49	12.1	0.0	16.56	-37		
					ļ					
···					<u> </u>	<u> </u>				
						ļ				
	ļ									
		_			<u> </u>					
						-				
			 		<u> </u>	 				
				 	-					
 		ļ				<u> </u>				
		 			1					
	+	 	 		 					
		 	 			 	 			
	+	 			 					
	 	 			 					
	 	 	-	<u> </u>	 	<u> </u>				
		1	 		 					
	+		ļ		ļ	ļ				
					ļ	ļ				
		.I								

OTES AND OBSERVATIONS:
Sulfur odor; sample taken 1350 for As and Pb.

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE 18TH FLOOR, NEW YORK, NY 10001: ENGINEERS AND SCIENTISTS	Project Lipank Edgewater 48 River Road Edgewater N CHIKDS	GZA:117:MW-58: 1
COLUMN OF WATER IN WELL:	SCREENED INTERVAL:	2-12'
Depth to Bottom (ft) - Static Water Level (ft)	PURGE DEPTH (ft):	8.8
= 11.75 - 3.80	PURGE RATE (ml/min):	100-500
Water Column (T): 7.95 (ft)	SAMPLER:	DW and MH

DATE SAMPLED:

11/20/2006

WATER CHALITY.

Time	Elapsed Time	Depth to Water (ft)	pН	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP
1235	0	3.81	7.73	3.410	0.000	0.000	16.25	-161
1240	5	4.90	7.84	3.57	-0.50	0.00	16.71	-290
1245	10	4.70	7.89	3.56	8.77	0.00	16.69	-330
1250	15	4.40	7.94	3.57	4.83	0.00	16.75	-358
1255	20	4.95	7.92	3.60	2.20	0.00	16.78	-371
1300	25	4.90	7.91	3.64	177.00	0.00	16.74	-374
1305	30	5.03	7.87	3.66	113.00	0.00	16.80	-384
1310	35	4.95	7.85	3.66	110.00	0.00	17.01	-389
1315	40	5.15	7.83	3.67	242.00	0.00	16.75	-397
1320	45	5.17	7.82	3.68	189.00	0.00	16.77	-407
1325	50	5.16	7.81	3.69	151.00	0.00	16.78	-413
1330	55	4.97	7.76	3.70	71.70	0.00	16.86	-426
1335	60	5.20	7.74	3.70	4.44	0.00	16.73	-433
1340	65	5.83	7.72	3.71	4.55	0.00	16.69	-437
1345	70	NA	NA	NA	NA NA	NA	NA	NA
1350	75	5.11	7.72	3.73	2.14	0.00	16.82	-442
1355	80	NA	ŅA	NA	NA	NA	NA	NA
1400	85	5.09	7.69	3.74	98.70	0.00	16.81	-444
1405	90	5.10	7.68	3.74	147.00 0.00		16.76	-444
1410	95 NA	NA	NA	NA	NA	NA	NA	
1415	100	5.09	7.66	3.75	91.80	0.00	16.90	-445
1420	105	5.10	7.64	3.75	248.00	0.00	16.77	-445
1425	110	5.02	7.62	3.74	179.00	0.00	16.81	-445
1430	115	5.02	7.61	3.76	115.00	0.00	16.84	-444
		L			l	1		

NOTES AND OBSERVATIONS:

Pungent (sulfur-like) odor; Black water in tubing at the beginning of sampling; Water became light yellow in tubing after 40 minutes of purging; Sample taken at 1530 for PP metals.

GINEERS AND SCIE	i- Niisis			45,R) Edge	rojeci -dgewater	Fi≜NO. CHKO ev	410	181918.00 MKH	
OLUMN OF WAT	ER IN WELL:				SCREENED INTER	VAL:		2-12'	
epth to Bottom (ft) - Static Water				PURGE DEPTH (ft) PURGE RATE (mi/	•	8.3		
= 12.3	<u>5</u> -	5.34			100-500 DW				
/ater Column (T):	7.01	(π)			SAMPLER: DATE SAMPLED:			28/2006	
		<u></u>				•			
ATER QUALITY									
Time	Elapsed Time	Depth to Water (ft)	рН	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (ºC)	ORP	
0920	0	5.32	8.27	4.62	374.0	0.0	17.17	-324	
0925	5	5.74	7.98	4.58	41.3	0.0	17.51	-343	
0930	10	5.71	7.76	4.57	13.3	0.0	17.64	-360	
0935	15	5.81	7.65	4.56	12.2	0.0	17.62	-370	
0940	20	5.75	7.60	4.58	7.9	0.0	17.72	-375	
0945	25	5.70	7.59	4.59	5.7	0.0	17.80	-380	
0950	30	5.81	7.57	4.58	7.6	0.0	17.68	-383	
0955	35	5.80	7.56 7.57	4.63 4.69	5.9 4.5	0.00	17.73 17.86	-385 -389	
1000	40	5.74	7.57	4.09	4.5	0.00	17.00	-369	
······································									
-									
						ļ			
		 							
				ļ					
			ļ	ļ					
					 				
					 			*** ** *** *** *	
			<u> </u>			-			
		 		 		-			
		ļ				-			
		1	I .	I	1	1	L		

GZA GEOENVIRON MANTHAVENUE 1811 ENGINEERS AND SCIEM	MENTAL OF N 1FECTOR NEW Y	NEW YORK YORK NY 10001		park 45 P Edge	roject Edgewater - Edgewater WenRoad	WELLIE SHEET FRIENO ENCHRORY	410	AV:60 OF 1 S13 810 U	
OLUMN OF WATER	DIN WELL.				SCREENED INTER	VA1 -	2	-14.98	
Depth to Bottom (ft) -		Level (ft)			PURGE DEPTH (ft)):		10.8	
= 14.98	-	5.81			PURGE RATE (ml/	min):	100-500		
Water Column (T):	9.17	(π)			SAMPLER: DATE SAMPLED:			DW 28/2006	
				<u>.</u>	DATE OAM ELD.			20/2000	
WATER QUALITY:									
Time	Elapsed Time	Depth to Water (ft)	pН	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	
1030	0	6.45	2.35	4.35	163.0	2.1	17.07	-359	
1035	5	8.15	2.64	4.24	107.0	0.0	17.49	-328	
1040	10	7.45	2.71	4.19	48.2	0.0	18.04	-319	
1045	15	8.19	2.81	4.16	22.6	0.0	18.24	-305	
1050	20	8.20	2.91	4.16	13.5	0.0	17.96	-290	
1055	25	8.50	3.05 3.69	4.09 3.91	32.7 12.8	0.0	18.10	-270	
1100	30	8.69	3.09	3.91	12.0	0.0	18.06	-219	
					ļ			- 	
						<u> </u>			
						<u> </u>			
ļ					1				
						<u> </u>			
				·					
				· · · · · · · · · · · · · · · · · · ·					
		 	<u> </u>		1				
			l	-					
									
			<u> </u>						
					<u> </u>				
		<u> </u>	ļ		+	1			
	 				+	 			
	 	 							
<u> </u>			<u> </u>						
		1							
			. —						

NOTES AND OBSERVATIONS:
Took sample at 1105 before water quality parameters stabilized due to a drop in the water table; purged approx 5 gallons from well.

								101
	TER IN WELL:	• ··· • (£4)			SCREENED INTER	3-12' 12.5'		
to Bottom (ft)) - Static Water L	Level (π) 11.45			PURGE DEPTH (ft) PURGE RATE (ml/		0-500	
Column (T):	3.35				SAMPLER:			Walcott
		,(-)			DATE SAMPLED:	•		6/2007
ER QUALITY:	:							
Time	Elapsed Time	Depth to Water (ft)	рН	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP
1235	0	11.45	7.18	4.80	42.7	N/A	18.96	-176
1240	5	11.45	7.16	4.82	N/A	0.00	18.66	-202
1245	10	11.45	7.16	4.82	6.8	0.00	18.92	-241
1250	15	11.45	7.14	4.82	267	0.00	18.26	-241
1300	20	11.45	7.14	4.80	268	0.00	19.25	-241
		 	 	-	-			
		 	 					
)		-	<u> </u>				 	
		<u> </u>		_	1			
				<u> </u>	-	<u> </u>	-	
			 	 				
	 	 '	 	 				
·		1				+	 	
		 		 		1		
	+	 						
			 	+		1	 	
	+	†						

.

SZA GEOENVIRON AĞININTE AVENUE; 18 EKS AND SCIE	итете			46 Ri	roject Edgewater V Vehiktoart Water N.	E CHKD BY	41.01	G1348.00
COLUMN OF WAT								
Depth to Bottom (ft)					8.71'			
= 15.4°		3.7				0-500 Walcott		
Vater Column (T):	11.71	(11)			•		5/2007	
					DATE SAMPLED:	•	2/1	3/2007
WATER QUALITY:								
Time	Elapsed Time	Depth to Water (ft)	рН	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP
1310	0	3.70	6.82	4.46	24.9	0.00	15.61	-302
1315	5	3.70	6.81	4.47	15.3	0.00	15.75	-307
1320	10	3.70	6.79	4.71	117.0	0.00	15.63	-322
1325	15	3.70	6.81	4.52	11.3	0.00	15.97	-312
1330	20	3.70	6.81	4.51	4.9	0.00	15.80	-307
1335	25	3.70	6.81	4.51	3.0	0.00	15.76	-308
1340	30	3.70	6.83	4.47	0.0	0.00	15.93	-304
1345	35	3.70	6.82	4.47	0.0	0.00	16.14	-305
1350	40	3.70	6.82	4.46	0.0	0.00	15.98	-305
· **								
	ļ				<u> </u>			
	 							
	ļ		 					
								
	-							
	+				· · · · · · · · · · · · · · · · · · ·			
								•••
· · · · · · · · · · · · · · · · · · ·	 						<u> </u>	
								
								· · · · · · · · · · · · · · · · · · ·
7.000				-				
	1							
								····
X		<u> </u>				<u> </u>		

	141 14/121 .				CODEENED INTER	41/A1 .		
44 Pottom (ff	TER IN WELL: t) - Static Water I	Lovel (ff)			SCREENED INTER PURGE DEPTH (ft)		٤	B.71'
th to Bottom (11) = 15.4	41 -	3.7			PURGE RATE (ml/			0-500
ter Column (T):			•		SAMPLER:			n Walcott
-		, V- 3			DATE SAMPLED:	-		5/2007
TER QUALITY	/·							
	Elapsed	Depth to		Specific		Dissolved Oxygen		
Time	Time	Water (ft)	pН	Conductivity (mS/cm)	Turbidity (NTU)	(mg/l)	Temp (°C)	ORP
1203	0	5.28	5.3	0.314	N/A	3.81	11.2	-116
1208	5	5.23	6.4	0.305	N/A	3.70	12.5	-139
1213	10	5.22	6.6	0.307	N/A	3.40	13.2	-137
1218	15	5.22	6.5	0.312	N/A	3.11	13.8	-136
1223	20	5.22	5.8	0.345	N/A	3.29	13.9	-77
1228	25	5.23	5.8	0.357	N/A	3.63	14.0	-81
1233	30	5.22	5.8	0.352	N/A	3.55	13.9	-79
12.38	35	5.22	5.7	0.355	N/A	5.57	13.9	-72 -75
1243	40	5.23	5.7	0.354	N/A	5.54	13.8	-75 -70
1248	45 50	5.22	5.7	0.353	N/A	5.55	13.9	-78 76
1253	50	5.22	5.7 5.7	0.354	N/A	5.55	13.9	-76 75
1253	50 100	5.23	5.7	0.354	N/A	5.56 5.55	13.9	-75 -77
1303 1308	100 105	5.23 5.23	5.7 5.7	0.355 0.355	N/A N/A	5.55 5.53	13.8 13.8	-77 -77
1308	105	5.23	5.7	0.355	N/A N/A	5.53 4.19	13.8	-77 -98
1333	130	5.12	5.9	0.310	N/A N/A	5.31	13.4	-98 -89
1343	140	5.14	5.7	0.320	N/A	5.39	13.5	-89 -81
1348	145	5.16	5.8	0.319	N/A	5.30	13.6	-81
1353	150	5.17	5.7	0.319	N/A	5.32	13.6	-04 -79
1358	155	5.16	5.7	0.320	N/A	5.34	13.4	-83
	 				• %-			
						1		
			<u> </u>	<u> </u>	<u></u>		<u> </u>	
			<u> </u>			<u> </u>	<u> </u>	
<u> </u>			1		ļ			
			1	 	_			
			1	1	4			
				<u> </u>	1			****
			1				-	
		<u> </u>						

.

		4.56			2-6' 8.3 100-500 Dean Walcott 11/23/2006			
R QUALITY			<u> </u>		* 			
Time	Elapsed Time	Depth to Water (ft)	рН	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP
0955	0	4.56	6.69	0.003	161.0	92.5	11.40	134
1000	5	4.29	6.77	0.003	161.0	9.64	12.10	140
1005	10	4.25	6.81	0.003	158.0	9.60	13.10	136
1010	15	4.22	6.87	0.003	156.0	9.35	13.80	142
1015	20	4.26	6.87	0.003	155.0	9.24	14.00	142
1020	25	4.25	6.86	0.003	153.0	9.00	14.20	144
1025	30	4.25	6.84	0.003	152.0	8.87	14.40	141
1030 1035	35 40	4.35 4.22	6.83 6.83	0.003	152.0 152.0	8.64 8.66	14.50 14.60	144 144

													Sheet	1	of	1
	Si	te:		E	Edgewater				Clien	t / Site:			GZA			
	Da	te:			6/20/2007				Field Per	sonnel:		St	eve Schul	ze		
W	eath	er:		69°F	Clouds /	Rain			Job#							
Monitoring	g We	11#:		MW-28		,	Well Depth:	12.90 ft			Screened/Open Interval: NA f				ft	
Well i	ermi	it#:		NA		Wel	I Diameter:		2	inches						
PID/FID Re (ppm):	eadin		Background	d:		0.0			Pump Intak	e Depth:		10.75		ft below	тос	
			Beneath Ou	ıter Cap:		0.0		. 1	Depth to Wa	ater Befor	e Pump insi	tallation:	5.7	4	ft below TC	С
			Beneath Inr	ner Cap:		0.0			Purge	e Method	Ві	adder pur	np	•		
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Speci Conduc (us/c Reading	tivity m)	Disso Oxyg (mg/ Reading	jen 'L)	Rede Poten (mV Reading	tial ')	Turbi (NT Reading	U)	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
0044																
0844	X	\dashv	6.97	NA O 4 O	16.1	NA O 6	1953	NA O.7	1.51	NA O O O	-65.5	NA A7 E	31.9	NA 10.0	360	5.74
0849	X	\dashv	6.84	-0.13		-2.6	2040	87	0.70	-0.81		-17.5		-18.8	360	5.74
0854	X		6.87	0.03	13.4	-0.1	2040	0	0.29	-0.41		-10.8		-4.76	360	5.74
0859	Х		6.85	-0.02	13.2	-0.2	2050	10	0.19	-0.10	-100.1	-6.3	5.70	-2.64	360	5.74
0904	X		6.87	0.02	13.2	0.0	2050	0	0.17	-0.02	-108.4	-8.3	4.29	-1.41	360	5.74
909	Х		6.88	0.01	13.3	0.1	2050	0	0.17	0.00	-110.9	-2.5	4.01	-0.28	360	5.74
0914	Х		6.89	0.01	13.2	-0.1	2040	-10	0.16	-0.01	-113.4	-2.5	3.99	-0.02	360	5.74
0919		Х	6.89	0.00	13.2	0.0	2040	0	0.16	0.00	-115.9	-2.5	3.87	-0.12	360	5.74
					,											
											:					
													,			
	T															
	\vdash															
	-	\vdash														
<u> </u>	-	-											-			
	\vdash	-								-						
<u> </u>	-			-						<u> </u>	· · · · · · · · · · · · · · · · · · ·					
Commen	<u> </u>]		·]	
- Constitution	w.		Pump on @ 0842 Sample time:					915								

													Sheet	1	of	1
	s	ite:		ŧ	Edgewater				Clien	t / Site:			GZA			
					6/20/2007				Field Per	sonnel:		St	eve Schul	ze		
w					72°F Rain					Job#						
							Vell Depth:	14	4.97				en interval:		NA	ft
							i Diameter:									
PID/FID R		ngs	Backgroun						Pump intak	e Depth:		9.0		ft below	TOC	
ppm):			Beneath Ou	-									3.9	-"		oc l
								_			ВІ				•	
TIME	Purging	Sampling	pH (pH ur		Temper	ature	Spec Conduc (us/c	tivity	Disso Oxyg (mg/	ved en	Redo Poten (mV	ox tial	Turbi	-	Pumping Rate	Depth to Water (ft below
	Pur	Sar	Reading	Change	Reading	Change	Reading	Change	Reading	Ćhange	Reading	Change	Reading	Change	(ml/min)	TOC)
1001	х		6.05	NA.	17.1	NA	4860	NA.	0.99	NA NA	-50.7	NA.	386	NA	370	3.95
1006	х		6.16	0.11	16.4	-0.7	4700	-160	0.49	-0.50	-62.8	-12.1	184	-202	370	3.95
1011	х		6.18	0.02	16.6	0.2	4560	-140	0.37	-0.12	-66.2	-3.4	39.1	-144.9	370	3.95
1016	х		6.18	0.00	16.7	0.1	4630	70	0.30	-0.07	-68.8	-2.6	11.5	-27.6	370	3.95
1021	X 6.16 -0.02		16.7	0.0	4680	50	0.27	-0.03	-70.3	-1.5	7.00	-4.50	370	3.95		
1026	х		6.12	-0.04	16.6	-0.1	4750	70	0.26	-0.01	-71.2	-0.9	4.42	-2.58	370	3.95
731	х		6.12	0.00	16.5	-0.1	4790	40	0.26	0.00	-72.5	-1.3	4.36	-0.06	370	3.95
1036	х		6.12	0.00	16.6	0.1	4790	0	0.25	-0.01	-72.9	-0.4	4.10	-0.26	370	3.95
1041		x	6.12	0,00	16.6	0.0	4780	-10	0.25	0.00	-73.6	-0.7	3.97	-0.13	370	3.95
		T														
		T														
	\vdash	T														
	\vdash	\vdash							-							
	\vdash	\vdash														
	\vdash	\vdash	-													
	\vdash	-	 	ļ												
	-		-	 							<u>, , , , , , , , , , , , , , , , , , , </u>					
	\perp													<u></u>		
Commen	ts:		pump o	n @ 09	958	Samp	le time: 1	037								

													Sileet		Of	
	Site:				Edgewater				Clien	t / Site:			GZA			
	Da	ite: _			6/20/2007			ı	Field Per	sonnel:		St	eve Schui	ze		
. W	eath	er:		6	9°F Cloud	s				Job#						
Monitorin	y We	ll #: _		MW-31	·	. '	Well Depth:	1:	2.30	ft	Scr	eened/Op	en Interval:		NA	ft
				NA		Wel	l Diameter:		2	inches					-	
PID/FID Re (ppm):	eadin		Background	d: .		0.0			Pump Intak	e Depth:	·	9.0		ft below	тос	
			Beneath Ou	ter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump ins	tallation:	3.92	2	ft below TC	С
			Beneath Inr	ner Cap:		0.0	S				Bi		np			D = 41 4 5
TIME	Purging	Sampling	pH (pH un Reading	its)	Temper (°C Reading)	Spec Conduct (us/c Reading	tivity m)	Dissol Oxyg (mg/ Reading	en L)	Rede Poten (m\ Reading	itial /)	Turbit (NT) Reading	J) Č	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
4424		S														
1134	X	\dashv	6.24	NA OO	16.7	NA O 4	3460	NA 40	2.33	NA 1 1 1	-20.0	NA 7.7	151 68.2	NA O	360	3.92
1139	X		6.16	-0.08	16.3	-0.4	3470	10	1.22	-1.11	-27.7	-7.7		-82.8	360	3.92
1144	X		6.25	0.09	17.1	8.0	2910	-560	1.01	-0.21	-38.8	-11.1		-46.5	360	3.92
1149	Х		6.38	0.13	17.3	0.2	2310	-600	1.00	-0.01	-50.5	-11.7	8.66	-13.04	360	3.92
1154	Х		6.46	0.08	17.5	0.2	2050	-260	0.58	-0.42		-14.0	3.35	-5.31	360	3.92
159	X		6.50	0.04	17.6	0.1	1960	-90	0.53	-0.05		-5.9	2.04	-1.31	360	3.92
1204	Х		6.55	0.05	17.6	0.0	1872	-88	0.49	-0.04	-76.0	-5.6	1.81	-0.23	360	3.92
1209	Х		6.58	0.03	17.7	0.1	1827	-45	0.51	0.02	-79.3	-3.3	1.62	-0.19	360	3.92
1214	х		6.58	0.00	17.7	0.0	1798	-29	0.53	0.02	-82.6	-3.3	1.44	-0.18	360	3.92
1219	Х		6.58	0.00	17.7	0.0	1785	-13	0.54	0.01	-84.0	-1.4	1.39	-0.05	360	3.92
1224	х		6.61	0.03	17.7	0.0	1777	-8	0.55	0.01	-85.0	-1.0	1.48	0.09	360	3.92
1229		х	6.62	0.01	17.8	0.1	1769	-8	0.56	0.01	-86.3	-1.3	1.37	-0.11	360	3.92
·								<u> </u>								
	Γ															
Commen	ts:		D	. 64	120	C	la tima: 4	225								
ł			Pump o	ոայ	3Z	Samp	le time: 1	223								

													Sheet	1	of	1
	Si	te:		E	Edgewater	•			Clien	t / Site:			GZA			
	Da	te:			6/20/2007				Field Per	sonnel:		St	eve Schul	ze		
w	eath	er:		7	1°F Cloud	s				Job#						
			-				Well Depth:	1	4.34	ft	Scre	ened/Op	en Interval:		NA	ft
							Il Diameter:		2	inches						
PID/FID Ri (ppm):		gs	Background						Pump Intak	e Depth:		11.0		ft below	тос	
			Beneath Ou	•				. 1	Depth to Wa	ter Befor	e Pump Ins	tallation:	5.8	2	ft below TO	с
			Beneath Inr	ner Cap:					Purge	Method	В	adder pur	np	•		
TIME	Purging	Sampling	pH (pH ur	its)	Temper (°C)	Spec Conduc (us/c	tivity m)	Disso Oxyg (mg/	en 'L)	Rede Poten (mV	tial /)	Turbi (NT	U) Ö	Pumping Rate	Depth to Water (ft below
		Š	Reading	Change	Reading	Change		Change	Reading	Change		Change	Reading	Change	(ml/min)	TOC)
1322	X	_	6.66	NA_	21.8	NA NA	6050	NA	1.73	NA .	-67.0	NA	6.36	NA .	200	5.85
1327	Х	_	6.64	-0.02	20.0	-1.8	6600	550	0.56	-1.17	-88.0	-21.0	3.44	-2.92	200	5.93
1332	х		6.65	0.01	19.6	-0.4	6960	360	0.50	-0.06	-94.3	-6.3	1.47	-1.97	200	5.96
1337	х		6.65	0.00	19.5	-0.1	7120	160	0.50	0.00	-99.4	-5.1	1.19	-0.28	200	5.98
1342	х		6.65	0.00	19.3	-0.2	7210	90	0.44	-0.06	-102.1	-2.7	1.02	-0.17	200	5.99
347	х		6.65	0.00	19.3	0.0	7230	20	0.41	-0.03	-104.1	-2.0	1.12	0.10	200	5.99
1352	x		6.65	0.00	19.3	0.0	7240	10	0.42	0.01	-106.6	-2.5	1.05	-0.07	200	5.99
1357		Х	6.65	0.00	19.4	0.1	7240	0	0.43	0.01	-109.2	-2.6	1.11	0.06	200	5.99
				<u> </u>												
		\vdash												t		
	-	\vdash				 										
	-	-														
	\vdash	_														
	\vdash	_			 	<u> </u>										
	_															
Соттеп	ts:		Pump o	n @ 13	320	Samp	le time: 1	353								

													Sheet	1	of	1
	Site:				Edgewater				Clien	t / Site:			GZA			
	Da	ite:			6/20/2007				Field Per	sonnel:		To	m Lesins	ki		
w	eath	er:		6	8°F Cloud	у				Job#						
Monitoring	g We	1) #:		MW-53A		. '	Well Depth:	1	4.48	ft	Scre	eened/Op	en Interval:		NA	ft
Well F	erm	it #: .		NA		We	II Diameter:	<u> </u>	2	inches						
PID/FID Re (ppm):	eadin		Backgroun	d:	· · · · · · · · · · · · · · · · · · ·	0.0			Pump Intak	e Depth:		10.0		ft below	тос	
			Beneath Ou	ıter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump Ins	tallation:	4.9	9	ft below TO	С
		_	Beneath In	ner Cap:		0.0				Method		adder pur	np	•		Danish da
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Spec Conduc (us/c Reading	tivity m)	Disso Oxyg (mg/ Reading	en L)	Rede Poten (m\ Reading	itial /)	Turbi (NTI Reading	ບ)	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
0840	X	<u> </u>	7.12	NA NA	16.3	NA NA	13800	NA.	3.31	NA NA	105.9	NA NA	39.5	NA	300	4.99
0845	Х		6.89	-0.23	16.4	0.1	17020	3220	1.57	-1.74	88.6	-17.3		-14.8		4.99
0850	Х		6.84	-0.05	16.5	0.1	17990	970	0.75	-0.82	70.2	-18.4	13.0	-11.7	300	4.99
0855	х			16.5	0.0	17280	-710	0.49	-0.26	48.1	-22.1	7.26	-5.74	300	4.99	
0900	х		6.85	0.03	16.5	0.0	20100	2820	0.31	-0.18	29.7	-18.4	4.90	-2.36	300	4.99
905	х		6.80	-0.05	16.5	0.0	20600	500	0.22	-0.09	10.0	-19.7	3.97	-0.93	300	4.99
0910	х		6.82	0.02	16.5	0.0	20800	200	0.20	-0.02	8.2	-1.8	3.89	-0.08	300	4.99
0915	х		6.81	-0.01	16.5	0.0	20880	80	0.21	0.01	4.9	-3.3	3.80	-0.09	300	4.99
0920		x	6.83	0.02	16.6	0.1	20950	70	0.22	0.01	1.4	-3.5	3.74	-0.06	300	4.99
		_											 			
				ļ <u></u>												
		_														
		_														
									!							
Commen	ts:		Pump o		335 AR/NO C	•	le time: (916								

													Sheet	1	of	1
	Si	ite:			Edgewater				Clien	t / Site:			GZA			
	Da	rte:			6/20/2007			ı	Field Per	sonnel:		To	om Lesins	ki		
w	eath	er:		6	8°F Cloud	у			· ::	Job#						
Monitoring	g We	II #: _.		MW-30		,	Well Depth:	1	1.95	ft	Scr	ened/Op	en Interval:	 	NA	ft
Well F	erm	it#:		NA		Wei	li Diameter:		2	inches						
PID/FID Re (ppm):	eadin		Backgroun	d:		0.0	· -		Pump Intak	e Depth:		9.5		ft below	тос	
			Beneath Ou	ıter Cap:		0.0			Depth to Wa	ater Befor	e Pump ins	tallation:	4.6	2	ft below TC	С
			Beneath In	ner Cap:		2.2			Purge	e Method	В	adder pur	np			
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Spec Conduct (us/c Reading	tivity m)	Disso Oxyg (mg.	jen 'L)	Rede Poten (m\ Reading	tiai ')	Turbic (NTI Reading	J) Š	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
1015		S														
1015	X		6.25	NA .	20.1	NA -	19330	NA .	0.68	NA .	-178.3	NA O	62.6	NA O	200	4.62
1020	Х		6.14	-0.11	19.4	-0.7	20700	1370	0.61	-0.07	-208.9	-30.6	59.7	-2.9	200	4.62
1025	X		6.17	0.03	19.2	-0.2	21200	500	0.58	-0.03		-26.8	46.0	<i>-</i> 13.7	200	4.62
1030	Х		6.17	0.00	19.2	0.0	20600	-600	0.60	0.02	-246.9	-11.2	36.0	-10.0	200	4.62
1035	Х		6.15	-0.02	19.1	-0.1	25600	5000	0.54	-0.06	-261.0	-14.1	24.7	-11.3	200	4.62
040	Х		6.15	0.00	19.1	0.0	25700	100	0.56	0.02	-263.7	-2.7	22.0	-2.7	200	4.62
1045	х		6.15	0.00	19.1	0.0	25900	200	0.58	0.02	-266.2	-2.5	21.4	-0.6	200	4.62
1050	Х		6.15	0.00	19.1	0.0	26400	500	0.56	-0.02	-269.7	-3.5	21.0	-0.4	200	4.62
1055		Х	6.16	0.01	19.9	0.8	26900	500	0.60	0.04	-270.9	-1.2	20.0	-1.0	200	4.62
													•			
													,			
 	-	\vdash														
	-	-														
<u> </u>	_	_		<u> </u>												
			<u> </u>	DULA	ON 404	O CAN	NOT PL	IMD NA	DE TU	ANI 200	NAL ANDINI	D) INAT	18 61 6	GGING	こハバナロ	
Commen	w.			SMAL		(PART	TICLES F				-		010			

			•										Sheet	1	of	1
	Si	ite:		E	dgewater				Clien	t / Site:			GZA			
	Da	ıte: _		(6/20/2007				Field Per	sonnel:		Тс	m Lesins	ki		
w	eath	er:		6	B°F Cloud	у				Job#						
							Well Depth:	1:	2.90	ft	Scre	eened/Op	en interval:			ft
Well F	Permi	it #: _		NA		Wel	l Diameter:		2	inches						
PID/FID Re (ppm):	adin		Background	d:		0.0			Pump Intak	e Depth:		8.0		ft below	тос	
			Beneath Ou	nter Cap:		0.0			Depth to Wa	iter Befor	e Pump ins	tallation:	3.1	1	ft below TC	С
:			Beneath Inr	ner Cap:		40.0			Purge	e Method	ВІ	adder pur	пр	•		
TIME	Purging	Sampling	pH (pH un Reading	nits)	Temper (°C)	Spec Conduc (us/c Reading	ctivity m)	Disso Oxyg (mg/ Reading	en 'L)	Rede Poten (m\ Reading	rtial /)	Turbi (NT Reading	υ)	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
		8		Change												
1223	X	-	6.32	NA NA	15.4	NA .	4860	NA .	0.57	NA .	-60.0	NA .	11.7	NA .	300	3.29
1228	X		6.32	0.00	15.1	-0.3	4910	50	0.50	-0.07	-63.5	-3.5	6.07	-5.63	1	3.29
1233	Х		6.33	0.01	15.0	-0.1	5180	270	0.46	-0.04	-67.9	-4.4	4.00	-2.07	300	3.29
1238	X	\square	6.35	0.02	15.1	0.1	2800	-2380	0.45	-0.01	-71.6	-3.7	3.98	-0.02	300	3.29
1243	Х		6.30	-0.05	14.9	-0.2	2830	30	0.45	0.00	-72.0	-0.4	6.33	2.35	300	3.29
.248			-0.01	14.9	0.0	2900	70	0.43	-0.02	-74.9	-2.9	5.98	-0.35	300	3.29	
1253	x		6.28	-0.01	14.9	0.0	3070	170	0.39	-0.04	-77.5	-2.6	5.94	-0.04	300	3.29
1303	х		6.30	0.02	14.9	0.0	3090	20	0.40	0.01	-78.6	-1.1	5.95	0.01	300	3.29
1308	х		6.30	0.00	14.9	0.0	3010	-80	0.39	-0.01	-79.7	-1.1	5.91	-0.04	300	3.29
1313		x	6.28	-0.02	15.0	0.1	3040	30	0.43	0.04	-80.6	-0.9	5.85	-0.06	300	3.29
															:	
	1										:					
	\vdash															
-		\vdash														
		-														
	-	\vdash										1				
	-	_		ļ												
<u> </u>		_		ļ												
)				Divis	011404	O CAR	IPLE CLI	EAD/N								
Commen	ts:				ON 121 PLED @		IFLE ULI		אטעט י	•						

													Sheet	1	of	1
	Şi	te:		E	dgewater	•			Clien	nt / Site:			GZA			
	Da	te:			6/20/2007				Field Per	sonnel:		To	m Lesins	ki		
w	eath	er:		6	8°F Cloud	у				Job#						
							Well Depth:	1	3.07	ft	Scre	ened/Op	en Interval:		NA	ft
Well I	erm:	it #:				Wei	ll Diameter:		2	inches						
PID/FID Ro (ppm):	eadin		Background	d:		0.0			Pump Intak	e Depth:		10.5		ft below	тос	
(PP-11-7-			Beneath Ou	•				•		'	e Pump Inst				ft below TO	С
			Beneath Inr	ner Cap:		0.0			Purge	e Method	В	adder pun	np		•	
	_B	ling	pH		Temper	ature	Spec Conduc		Disso Oxyg		Redo Poten		Turbic	dity	Pumping	Depth to Water
TIME	Purging	Sampling	(pH un Reading		(°C Reading		(us/c Reading		(mg/ Reading		(mV Reading	<u> </u>	(NT) Reading		Rate (ml/min)	(ft below TOC)
1355	Х		6.99	NA .	16.0	NA .	5430	NA	0.50	NA.	-221.8	NA.	1076	NA	300	5.65
1400	Х		6.91	-0.08	15.8	-0.2	5470	40	0.48	-0.02	-241.9	-20.1	452	-624	300	5.65
1405	Х		6.82	-0.09	15.7	-0.1	4930	-540	0.24	-0.24	-244.0	-2.1	112	-340	300	5.65
1410	х		6.77	-0.05	15.7	0.0	4910	-20	0.23	-0.01	-246.7	-2.7	45.3	-66.7	300	5.65
1415	х		6.78	0.01	15.7	0.0	4890	-20	0.24	0.01	-252.6	-5.9	26.6	-18.7	300	5.65
420	Х		6.76	-0.02	15.7	0.0	4790	-100	0.24	0.00	-259.1	-6.5	19.5	-7.1	300	5.65
1425	Х		6.68	-0.08	15.7	0.0	4650	-140	0.24	0.00	-281.9	-22.8	15.4	-4.1	300	5.65
1430	Х		6.67	-0.01	15.7	0.0	4600	-50	0.23	-0.01	-286.2	-4.3	13.6	-1.8	300	5.65
1435	х		6.67	0.00	15.7	0.0	4530	-70	0.22	-0.01	-293.0	-6.8	10.82	-2.78	300	5.65
1440	х		6.67	0.00	15.7	0.0	4490	-40	0.23	0.01	-300.7	-7.7	10.51	-0.31	300	5.65
1445	х		6.67	0.00	15.7	0.0	4480	-10	0.23	0.00	-301.8	-1.1	10.42	-0.09	300	5.65
1450		х	6.69	0.02	15.7	0.0	4460	-20	0.50	0.27	-306.7	-4.9	10.28	-0.14	300	5.65
	_															
					-											
Commen	comments:				ON 135		IPLE CLE	AR/N	ODOR							··-,
				CAIVIE	س دے۔	ידדי										

													Sheet	1	of	1
9	Si	te:_		E	dgewater				Clien	t / Site:			GZA			
	Da	te:_			6/21/2007				Field Per	sonnel:	 	St	eve Schul	ze		. [
w	eath	er:			59°F Sun					Job#						
Monitorin	g We	II #: _		MW-27		1	Well Depth:	1;	2.63	ft	Scr	ened/Op	en Interval:	NA		ft
and the second			NA			We	ll Diameter:		2	inches						
PID/FID Re (ppm):	adin	•	Background	d:		0.0			Pump Intak	e Depth:		9.75	· ·	ft below	тос	
			Beneath Ou	ter Cap:		0.0	·	. '	Depth to Wa	ater Befor	e Pump ins	tallation:	4.7	3	ft below TO	С
	_	- 1	Beneath Inr	ner Cap:		0.0	Spec	16.	Purge Disso	e Method	Bi Red	adder Pur	пр		1	Depth to
TIME	Purging	Sampling	pH (pH un	its)	Temper (°C)	Conduc (us/c	ctivity m)	Oxyg (mg	jen (L)	Poten (m\	tial ()	Turble (NT)	ປ) ້	Pumping Rate	Water (ft below
	ā	S	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
0745	Х		7.50	NA.	16.6	NA	6700	NA NA	1.71	NA .	-137.1	NA NA	59.6	NA	320	4.73
0750	х		6.95	-0.55	15.6	-1.0	4540	-2160	0.64	-1.07	-153.1	-16.0	33.2	-26.4	320	4.73
0755	х	_	7.02	0.07	16.2	0.6	3040	-1500	0.48	-0.16	-162.4	-9.3	10.21	-22.99	320	4.73
0800	x		7.05	0.03	16.3	0.1	2630	-410	0.33	-0.15	-183.9	-21.5	3.77	-6.44	320	4.73
0805	х		7.05	0.00	16.4	0.1	2570	-60	0.29	-0.04	-193.4	-9.5	2.37	-1.40	320	4.73
310	х		7.04	-0.01	16.5	0.1	2530	-40	0.25	-0.04	-204.6	-11.2	2.13	-0.24	320	4.73
0815	х		7.02	-0.02	16.7	0.2	2510	-20	0.23	-0.02	-214.9	-10.3	1.71	-0.42	320	4.73
0820	x		7.00	-0.02	16.8	0.1	2470	-40	0.22	-0.01	-222.8	-7.9	1.76	0.05	320	4.73
0825	х		6.98	-0.02	16.7	-0.1	2480	10	0.22	0.00	-233.1	-10.3	1.79	0.03	320	4.73
0830	X		6.96	-0.02	16.8	0.1	2470	-10	0.23	0.01	-240.3	-7.2	1.71	-0.08	320	4.73
0835	х		6.94	-0.02	16.7	-0.1	2440	-30	0.23	0.00	-247.0	-6.7	1.74	0.03	320	4.73
0840	x		6.91	-0.03	16.8	0.1	2420	-20	0.23	0.00	-254.7	-7.7	1.80	0.06	320	4.73
0845	x		6.90	-0.01	16.8	0.0	2410	-10	0.25	0.02	-256.9	-2.2	1.76	-0.04	320	4.73
0850		X	6.90	0.00	16.9	0.1	2410	0	0.24	-0.01	-259.6	-2.7	1.73	-0.03	320	4.73
									1							
	T															
	\vdash	I														
	\vdash	\vdash											<u>.</u>			
Commen	l ts:	<u> </u>	ll .	<u> </u>	I	<u> </u>	I	<u>. </u>	I		<u> </u>	l	<u> </u>	<u> </u>	H]
			Pump o	n @ 07	743	Samp	le time: (0846								

			<u> </u>										Sneet	<u> </u>	OI .	 -
	Si	te:_	<u> </u>	1	Edgewate	<u> </u>			Clien	t / Site:			GZA			
	Da	te:_			6/21/2007				Field Per	sonnel:		St	eve Schul	ze		
W	eath	er:			72°F Sun			•		Job#						
Monitoring	g Wel	ll #: _		MW-5		. 1	Well Depth:	1:	2.36	ft	Scr	eened/Op	en Interval:	NA	· · · · · · · · · · · · · · · · · · ·	ft
			NA			Wel	l Diameter:		2	inches		·				
PID/FID Re (ppm):	eadin	_	Background	1 :		0.0			Pump intak	e Depth:		10.0		ft below	тос	
			Beneath Ou	iter Cap:		0.0		. '	Depth to Wa	iter Befor	e Pump ins	tallation:	4.9	3	ft below TO	С
			Beneath Inr	ner Cap:		0.0			Purge	Method	ВІ	adder Pur	np			
TIME	Purging	Sampling	pH (pH un	its)	Temper (°C)	Spec Conduc (us/c	ctivity cm)	Dissol Oxyg (mg/	en L)	Rede Poten (m\	itial /)	Turbic	J) ¯	Pumping Rate	Depth to Water (ft below
	-	Ö	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
0931	Х	4	6.81	NA	17.2	NA	5970	NA	0.82	NA	-132.8	NA	121.0	NA	300	5.04
0936	X		6.87	0.06	15.2	-2.0	4740	-1230	0.46	-0.36	-169.1	-36.3	69.7	-51.3	300	5.04
0941	х		6.92	0.05	15.6	0.4	3200	-1540	0.55	0.09	-168.8	0.3	44.2	-25.5	300	5.04
0946	x		6.78	-0.14	16.1	0.5	1837	-1363	0.66	0.11	-126.8	42.0	12.8	-31.4	300	5.04
0951	х		6.64	-0.14	16.0	-0.1	1312	-525	0.51	-0.15	-110.1	16.7	6.48	-6.32	300	5.04
J 9 56	956 X			-0.17	16.3	0.3	1226	-86	0.51	0.00	-86.0	24.1	14.0	7.5	300	5.04
1001			6.34	-0.13	16.2	-0.1	1195	-31	0.51	0.00	-71.5	14.5	15.1	1.1	300	5.04
1006	х		6.39	0.05	16.2	0.0	1133	-62	0.49	-0.02	-67.4	4.1	7.21	-7.89	300	5.04
1011	х		6.43	0.04	16.2	0.0	1115	-18	0.47	-0.02	-66.8	0.6	5.64	-1.57	300	5.04
1016	х		6.52	0.09	16.2	0.0	1089	-26	0.43	-0.04	-67.6	-0.8	2.97	-2.67	300	5.04
1021	х		6.53	0.01	16.3	0.1	1083	-6	0.41	-0.02	-67.7	-0.1	2.17	-0.80	300	5.04
1026	х		6.56	0.03	16.3	0.0	1072	-11	0.39	-0.02	-69.2	-1.5	1.91	-0.26	300	5.04
1031	х		6.58	0.02	16.4	0.1	1064	-8	0.38	-0.01	-70.9	-1.7	1.94	0.03	300	5.04
1036	х		6.74	0.16	16.5	0.1	1060	-4	0.33	-0.05	-82.3	-11.4	2.17	0.23	300	5.04
1041	x		6.77	0.03	16.4	-0.1	1061	1	0.35	0.02	-92.5	-10.2	2.06	-0.11	300	5.04
1046	х		6.73	-0.04	16.5	0.1	1060	-1	0.32	-0.03	-96.4	-3.9	2.00	-0.06	300	5.04
1051	х		6.66	-0.07	16.5	0.0	1055	-5	0.33	0.01	-92.1	4.3	2.20	0.20	300	5.04
1056	х		6.71	0.05	16.5	0.0	1053	-2	0.33	0.00	-90.7	1.4	2.17	-0.03	300	5.04
1101		х	6.70	-0.01	16.5	0.0	1052	-1	0.32	-0.01	-88.1	2.6	2.19	0.02	300	5.04
Comment	is:		Pump o	n @ 09	29	Samp	le time: 1	057								

													Sneet	1	Of .	
	S	te:	·	1	Edgewate	<u> </u>			Clien	t / Site:			GZA			
	Da	te:			6/21/2007	-	·		Field Per	sonnel:	·	St	eve Schul	ze	· · · · · · · · · · · · · · · · · · ·	
W	eath	er:			75°F Sun			•		Job#						
Monitorin	g We	II #: _.		MW-3		. 1	Well Depth:	1	4.33	ft	Scre	ened/Op	en Interval:	NA		ft
			NA			Wel	l Diameter:		2	inches			<u>.</u>			
PID/FID Ro (ppm):	eadin	•	Background	d: .		0.0			Pump Intak	e Depth:		8.75		ft below	тос	
			Beneath Ou	iter Cap:		0.0	·	. '	Depth to Wa	iter Befor	e Pump Ins	tallation:	3.63	3	ft below TC	С
			Beneath Inr	ner Cap:		0.0				Method			np			
TIME	Purging	Sampling	pH (pH un Reading	ilts)	Temper (°C Reading)	Spec Conduc (us/c Reading	tivity m)	Dissol Oxyg (mg/ Reading	en L)	Redo Poten (m\ Reading	tial ')	Turbic (NTI Reading	رر (ر	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
		S							_							
1216	X	\dashv	7.71	NA .	18.6	NA	3650	NA OOO	1.71	NA O	-227.3	NA TO T	149.0	NA O	320	3.68
1221	Х	\neg	8.35	0.64	14.9	-3.7	3930	280	0.79	-0.92				<i>-</i> 91.3	320	3.70
1226	X		8.92	0.57	14.8	-0.1	3760	-170	0.80	0.01	-280.1	-2.1	21.8	-35.9	320	3.70
1231	Х		9.06	0.14	15.2	0.4	3660	-100	0.17	-0.63	-306.4	-26.3	36.5	14.7	320	3.70
1236	Х		9.18	0.12	14.8	-0.4	3720	60	0.11	-0.06	-336.9	-30.5	18.7	-17.8	320	3.70
241	х		9.24	0.06	14.8	0.0	3740	20	0.10	-0.01	-352.2	-15.3	12.7	-6.0	320	3.70
1246	х		9.24	0.00	14.8	0.0	3770	30	0.10	0.00	-359.8	-7.6	10.83	-1.87	320	3.70
1251	х		9.24	0.00	14.6	-0.2	3790	20	0.10	0.00	-365.5	-5.7	9.04	-1.79	320	3.70
1256	х		9.16	-0.08	14.6	0.0	3880	90	0.10	0.00	-366.7	-1.2	7.74	-1.30	320	3.70
1301	х		9.21	0.05	14.7	0.1	3860	-20	0.10	0.00	-373.5	-6.8	7.25	-0.49	320	3.70
1306	x		9.24	0.03	14.6	-0.1	3840	-20	0.10	0.00	-375.1	-1.6	7.18	-0.07	320	3.70
1311		Х	9.27	0.03	14.6	0.0	3850	10	0.10	0.00	-376.6	-1.5	7.11	-0.07	320	3.70
								:								
								-								
							·									
	Τ															
	T	_														
	\vdash	\vdash			`											
Commen	ts:	<u> </u>	11	<u> </u>			<u> </u>	<u> </u>							Ii	
			Pump o	n @ 12	214	Samp	le time: 1	307								

							· · · · · · · · · · · · · · · · · · ·			·····			Sneet	1	Of	
	Si	te:_			Edgewater	•		•	Clien	t / Site:			GZA			
	Da	te:_			6/21/2007			•	Field Per	sonnel:		St	eve Schul	ze		,
W	eath	ег:_			79°F Sun			•		Job#						
Monitorin	g Wel	II #: _		MW-56			Well Depth:	1	3.79	ft	Scr	eened/Op	en Interval:	NA		ft
Well F	Permi	t #:	NA			Wel	l Diameter:		2	inches						
PID/FID Re (ppm):	eadin	_	Background	d:		0.0			Pump Intak	e Depth:		9.5		ft below	тос	
			Beneath Ou	iter Cap:		0.0		. i	Depth to Wa	iter Befor	e Pump Ins	tallation:	4.5	0	ft below TO	с
			Beneath Inr	ner Cap:		0.0					ВІ		mp		.	
TIME	Purging	Sampling	pH (pH un	its)	Temper (°C)	Spec Conduc (us/c	ctivity m)	Disso Oxyg (mg/	en L)	Redi Poten (m\	rtial /)	Turbi	J) Č	Pumping Rate	Depth to Water (ft below
		Ø	Reading	Change	Reading	Change	Reading	Change	Reading	Change				Change	(ml/min)	TOC)
1339	X	\dashv	7.80	NA .	20.5	NA	9050	NA NA	0.89	NA	-196.2	NA NA	87.7	NA.	280	4.51
1344	X	\dashv	9.03	1.23	18.3	-2.2	5560	-3490	0.54	-0.35	-292,4	-96.2	114	26.3	280	4.53
1349	X	\perp	9.93	0.90	18.2	-0.1	4340	-1220	0.21	-0.33	-326.1	-33.7	94.6	-19.4	280	4.56
1354	х		10.14	0.21	18.1	-0.1	4230	-110	0.13	-0.08	-351.8	-25.7	71.3	-23.3	280	4.56
1359	х		10.17	0.03	18.1	0.0	4120	-110	0.12	-0.01	-351.4	0.4	57.2	-14.1	280	4.56
404	х		10.06	-0.11	18.1	0.0	3960	-160	0.09	-0.03	-358.9	-7.5	45.5	-11.7	280	4.56
1409	х		9.79	-0.27	18,1	0.0	3830	-130	0.08	-0.01	-371.2	-12.3	39.0	-6.5	280	4.56
1414	х		9.53	-0.26	18.1	0.0	3620	-210	0.08	0.00	-376.3	-5.1	31.5	-7.5	280	4.56
1419	х		9.30	-0.23	18.0	-0.1	3540	-80	0.08	0.00	-380.2	-3.9	23.3	-8.2	280	4.56
1424	х		9.07	-0.23	17.6	-0.4	3480	-60	0.08	0.00	-386.3	-6.1	18.9	-4.4	280	4.56
1429	х		8.87	-0.20	17.7	0.1	3410	-70	0.08	0.00	-385.9	0.4	15.8	-3.1	280	4.56
1434	х		8.74	-0.13	17.5	-0.2	3420	10	0.08	0.00	-385.6	0.3	15.3	-0.5	280	4.56
1439	х		8.65	-0.09	17.6	0.1	3390	-30	0.08	0.00	-386.4	-0.8	14.8	-0.5	_280	4.56
1444	х		8.42	-0.23	17.6	0.0	3370	-20	0.08	0.00	-380.8	5.6	13.7	-1.1	280	4.56
1449	х		8.20	-0.22	17.6	0.0	3350	-20	0.08	0.00	-376.1	4,7	12.2	-1.5	280	4.56
1454	Х		8.15	-0.05	17.6	0.0	3330	-20	0.08	0.00	-376.3	-0.2	11.4	-0.8	280	4.56
1459	х		8.10	-0.05	17.5	-0.1	3340	10	80.0	0.00	-375.3	1.0	11.2	-0.2	280	4.56
1504		Х	8.08	-0.02	17.5	0.0	3340	0	0.08	0.00	-375.4	-0.1	11.1	-0.1	280	4.56
												·				
Comment	ts:		Pump of	n @ 13	338	Samp	le time: 1	500								

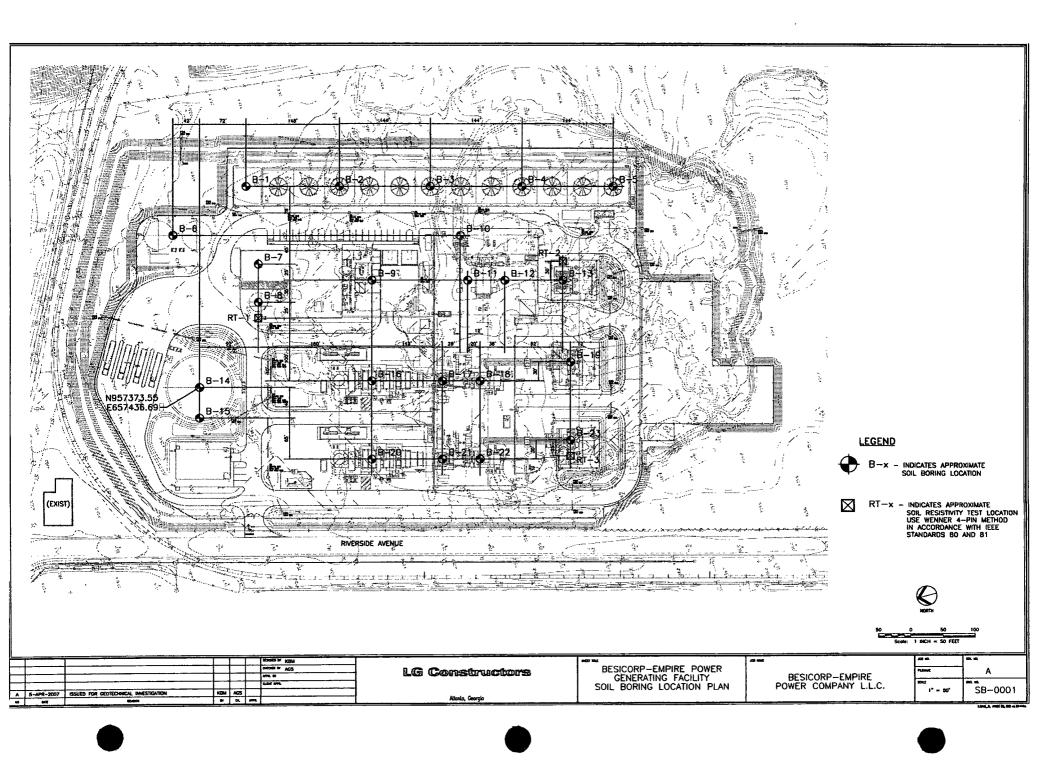
													Sheet	1	of	1
	Si	te:		E	dgewater				Clien	t / Site:			GZA			
	Da	te:	· · · · · · · · · · · · · · · · · · ·		6/21/2007				Field Per	sonnel:		To	m Lesins	ki		
V	/eath	er:			79°F Sun			· · · · · · · · · · · · · · · · · · ·		Job#						
Monitorir	ıg We	II #: .	. <u></u>	MW-69			Well Depth:	1.	4.33	ft	Scre	ened/Op	en Interval:		NA	ft
The second secon				NA		We	ll Diameter:		2	inches		<u> </u>		<u> </u>	-	
PID/FID R (ppm):	eadin		Background	d: .		0.0			Pump Intak	e Depth:		8.0	.	ft below	тос	
			Beneath Ou	iter Cap:		0.0			Depth to Wa	iter Befor	e Pump Inst	tallation:	3.1	1	ft below TC	С
	T - 1	_	Beneath Inr	ner Cap:		0.0	Spec	ific	Purge Disso		Bl Redd		np		ı	Depth to
TIME	Purging	Sampling	pH (pH un Reading	ilts)	Temper (°C Reading)	Conduction (us/c	:tivity m)	Oxyg (mg/	en 'L)	Poten (mV Reading	tial ')	Turbi (NTI Reading	J)	Pumping Rate (ml/min)	Water (ft below TOC)
0800	X	Ű	8.91	-	18.3	NA NA	4830	NA NA	2.80	NA NA	-274.4	NA NA	190	NA NA	300	3.14
0805	x		8.93	0.02	18.0	-0.3	3210	-1620	2.16	-0.64			126	-64	300	3.14
0810	x		8.95	0.02	17.9	-0.1	3180	-30	0.76		-305.8		52.6	-73.4		3.14
0815	x		8.93	-0.02	17.9	0.0	3150	-30	0.28		-321.3			-14.8		3.14
_0820	X		8.91	-0.02	18.0	0.1	3150	0	0.11	-0.17				-12.1	300	3.14
325			8.92	0.01	18.0	0.0	3130	-20	0.07		-347.6	-9.5	23.9	-1.8	300	3.14
0830	x		8.92	0.00	18.0	0.0	3100	-30	0.06	-0.01		-6.4	23.4	-0.5	300	3.14
0835	x		8.90	-0.02	18.0	0.0	3090	-10	0.06	0.00	-356.1	-2.1	22.8	-0.6	300	3.14
0840		Х	8.79	-0.11	18.2	0.2	3000	-90	0.08	0.02	-361.6	-5.5	21.9	-0.9	300	3.14
														·		
								į								
									-							
]													
Icamma	Comments:		*	PUME	ON 075	5 SAM	PLF CL	ΔP/N/	ADAD							

													Sneet		. OT	
	Site: Date: Weather:				Edgewater	·		-	Clien	t / Site:			GZA			
	Da	ite:			6/21/2007				Field Per	sonnel:	······································	To	om Lesins	ki	·	
W	eath	er:			79°F Sun			•		Job#						
Monitorin	g We	U#: _.		MW-49		. 1	Well Depth:	1	1.82	.ft	Scre	ened/Op	en Interval:	NA		ft
			NA			Wel	Il Diameter:		2	inches						
PID/FID Ro (ppm):	eadin		Background	d:		0.0		-	Pump Intak	e Depth:		10.0		ft below	тос	
			Beneath Ou	ıter Cap:		0.0		- 1	Depth to Wa	iter Befor	e Pump Ins	taliation:	5.2	0	ft below TO	ж
		_	Beneath In	ner Cap:		0.0		-			BI		mp			.
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Spec Condu- (us/c Reading	ctivity :m)	Disso Oxyg (mg/ Reading	jen 'L)	Rede Poten (m\ Reading	tial ')	Turbi (NT Reading	U)	Pumping Rate (mi/min)	Depth to Water (ft below TOC)
2004		S														
0931	X		7.84	NA .	15.1	NA .	839	NA .	1.01	NA O	-129.3	NA .	87.4	NA .	300	5.33
0936	0941 X 7.55			-0.21	14.7	-0.4	840	1	0.63	-0.38		-6.7	37.8	-49.6	300	5.33
0941	0946 X 7.50			-0.08	14.6	-0.1	847	7	0.47		-142.5		19.6	-18.2	300	5.33
0946			-0.05	14.5	-0.1	849	2	0.32	-0.15	-147.9	-5.4	12.1	-7.5	300	5.33	
_0951	951 X 7.47		-0.03	14.3	-0.2	849	0	0.22	-0.10	-156.2	-8.3	11.9	-0.2	300	5.33	
∌56			-0.01	14.3	0.0	853	4	0.21	-0.01	-159.4	-3.2	8.58	-3.32	300	5.33	
1001	Х		7.44	-0.02	14.3	0.0	853	0	0.20	-0.01	-161.2	-1.8	8.19	-0.39	300	5.33
1006	х		7.42	-0.02	14.3	0.0	855	2	0.20	0.00	-164.5	-3.3	8.05	-0.14	300	5.33
1011	_	x	7.44	0.02	14.7	0.4	857	2	0.21	0.01	-168.9	-4.4	8.10	0.05	300	5.33
													* .			
	╁			 												
-				 									<u> </u>			
	_	\vdash				<u> </u>										
Commen	Comments:			PUMF	ON 092	6 SAN	I IPLE CL	I .EAR/N	O ODOF	<u> </u>				L	Į.	
	comments:				LED@ 1											

	Site:											Sheet	1	of	1	
	Site: Date:				Edgewater				Clien	t / Site:			GZA			
	Da	ite: _			6/21/2007			ı	Field Per	sonnel:		To	m Lesins	ki		
W	eath	er:			79°F Sun		 			Job#		r				
Monitorin	g We	II #: _		MW-50	<u></u>	1	Well Depth:	8	3.08	ft	Scre	eened/Op	en Interval:	NA		ft
Well I	Perm	it #: _	NA			Wel	ll Diameter:		2	inches						
PID/FID R (ppm):	eadin		Backgroun	d:		0.0			Pump Intak	e Depth:		8.0		ft below	тос	
			Beneath Ou	ıter Cap:		0.0		. (Depth to Wa	iter Befor	e Pump Ins	tallation:	4.4	2	ft below TC	С
			Beneath In	ner Cap:		0.0			Purge	Method	В		пр			
TIME	Purging	Sampling	pH (pH ur	nits)	Temper)	Spec Conduc (us/c	:tivity m)	Disso Oxyg (mg	en 'L)	Rede Poten (mV	itial ')	Turbi (NT	U) Š	Pumping Rate	Depth to Water (ft below
	ā	Š	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1045	X	_	6.89	NA NA	17.9	NA.	3780	NA	0.46	NA NA	-144.8	N/A	356	ŅA	250	4.55
1050	055 X 6.78		-0.07	17.4	-0.5	3260	-520	0.44	-0.02	-151.0	-6.2	165	-191	250	4.55	
1055			-0.04	17.2	-0.2	2640	-620	0.44	0.00	-155.9	-4.9	44.6	-120.4	250	4.55	
1100	100 X 6.76		-0.02	17.1	-0.1	2510	-130	0.43	-0.01	-158.4	-2.5	28.8	-15.8	250	4.55	
1105			0.00	17.2	0.1	2450	-60	0.42	-0.01	-159.2	-0.8	17.7	-11.1	250	4.55	
110	х		6.76	0.00	17.1	-0.1	2280	-170	0.44	0.02	-160.5	-1.3	11.9	-5.8	250	4.55
1115	х		6.72	-0.04	17.2	0.1	2160	-120	0.46	0.02	-158.1	2.4	8.04	-3.86	250	4.55
1120	х		6.72	0.00	17.2	0.0	2110	-50	0.46	0.00	-158.3	-0.2	7.78	-0.26	250	4.55
1125	x		6.72	0.00	17,2	0.0	2100	-10	0.46	0.00	-158.2	0.1	7.70	-0.08	250	4.55
1130		х	6.71	-0.01	17.5	0.3	2040	-60	0.50	0.04	-159.1	-0.9	7,69	-0.01	250	4.55
					1											
ļ																
Commen	Comments:									ER,WELI	IS O	VLY 8.08	FT. D	EEP.		
1	omments:		SAMF	PLED @	1126 S	AMPLE '	YELLO	W TINT/	NO OE	OR						

													Sneet		- 01	
	Date:				Edgewater	r			Clien	t / Site:			GZA			
	Da	ıte:			6/21/2007			-	Field Pen	•		Tc	om Lesins	ki		•
W	eath	er:			79°F Sun					Job#						
		•			·	. '	Well Depth:	1	1.82	.ft	Scr	ened/Op	en interval:	NA		ft
			NA NA			Wel	ll Diameter:		2	inches						
PID/FID Re (ppm):	adin		Background	d:		0.0		-	Pump Intak	e Depth:		10,0		ft below	тос	
			Beneath Ou	ıter Cap:		0.0		- 1	Depth to Wa	iter Befor	e Pump Inst	tallation:	5.03	3	_ft below TC	c
			Beneath Inn	ner Cap:		0.0	Spec	ific	Purge Dissol		Bl:		np	<u>. </u>	n	Depth to
TIME	Purging	Sampling	pH (pH un		Temper		Conduc (us/c	ctivity cm)	Oxyg (mg/	jen /L)	Poten (mV	ntial /)	Turbio (NTL	ບ)	Pumping Rate	Water (ft below
	لگر	Sa	Reading				Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1219	x	igsqcup	6.96	NA.	15.3	NA	3230	NA	1.02	NA	-209.3	NA NA	20.1	NA	280	5.20
1224	x	\square	6.93	-0.03	15.1	-0.2	2510	-720	0.99	-0.03	-219.3	-10.0	13.3	-6.8	280	5.28
1229	x	\square	6.92	-0.01	15.0	-0.1	2130	-380	0.93	-0.06	-225.7	-6.4	10.90	-2.40	280	5.32
1234	x	ot	6.95	0.03	14.9	-0.1	1939	-191	0.58	-0.35	-245.9	-20.2	7.12	-3.78	280	5.36
1239	x		6.96	0.01	14.8	-0.1	1910	-29	0.46	-0.12	-255.6	-9.7	6.75	-0.37	280	5.38
-244	х		6.99	0.03	14.7	-0.1	1908	-2	0.29	-0.17	-274.1	-18.5	6.29	-0.46	280	5.38
1249	x	\sqcup^{l}	7.01	0.02	14.7	0.0	1910	2	0.23	-0.06	-291.6	-17.5	5.73	-0.56	280	5.38
1254	x		7.02	0.01	14.5	-0.2	1931	21	0.22	-0.01	-303.4	-11.8	5.00	-0.73	280	5.38
1259	x	ot	7.04	0.02	14.5	0.0	1936	5	0.22	0.00	-309.4	-6.0	5.20	0.20	280	5.38
1304	х	\perp	7.03	-0.01	14.5	0.0	1949	13	0.22	0.00	-311.9	-2.5	5.11	-0.09	280	5.38
1309	\bot'	x	7.02	-0.01	14.7	0.2	1951	2	0.20	-0.02	-306.8	5.1	5.06	-0.05	280	5.38
	ot'	igspace'	<u></u>			<u> </u>						<u> </u>				
	ot'	$oldsymbol{oldsymbol{oldsymbol{eta}}}$	<u> </u>	<u> </u>	<u> </u>	<u> </u>										
	Ĺ′	Ĺ′	<u> </u>	<u></u>	<u> </u>	<u> </u>										
<u></u>	<u></u>	<u> </u>	 	'	<u> </u>	<u> </u> '		ļ								
	<u> </u>	<u> </u>		<u> </u>		<u> '</u>		ļ	ļ							
	L'	L	<u> </u>	ļ!	<u> </u> '	<u> </u>										
						<u> </u> '		ļ	<u></u>							
									<u> </u>							
						<u> </u>										
Comment	Comments:				P ON 121 PLED @ 1		PLE YEI	TOM.	ΓΙΝΤ/ΝΟ	ODOR	{					

													Sheet	1	. of	1
	Site: Date:				Edgewater	,			Clien	it / Site:			GZA			
	Da	te:			6/21/2007			•	Field Per	sonnel:		Тс	om Lesins	ki		
w	eath	er:			79°F Sun					Job#						,
Monitoring	g We	il #:_		MW-35		٠ ،	Well Depth:	1	5.25	.ft	Scr	ened/Op	en interval:	NA		ft
Well F			NA			Wel	Il Diameter:		2	inches						
PID/FID Re (ppm):	eadin	•	Background	d: ,		0.0		-	Pump Intak	e Depth:		11.0		ft below	тос	
			Beneath Ou	iter Cap:		0.0		. '	Depth to Wa	ıter Befor	re Pump inst	tallation:	5.8	9	ft below TC	ж
	- T		Beneath Inr	ner Cap:		0.0	Snor	•6-			Bla		np			B-wilh da
TIME	Purging	Sampling	pH (pH un Reading	nits)	Temper (°C) Reading	3)	Speci Conduc (us/c Reading	ctivity :m)	Dissol Oxyg (mg/ Reading	jen /L)	Redo Poten (mV	ntial /)	Turbi (NT Reading	U)	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
1340		۳			18.8		3900		0.49		-438.5		215			
1340	X	\exists	11.75 11.83	0.08	18.7	-0.1	3920	20	0.49	-0.02		7.6	121	-94	250 250	6.13 6.21
1345	350 X 11.88 355 X 11.94				19.4	0.7	4050	130	0.32	-0.02		-5.7				
	355 X 11.94			0.05									43.1	-77.9	250	6.21
				0.06	19.5	0.1	4130	80	0.04	-0.28		-16.0		-24.4		6.21
1400	0 X 11.92			-0.02	19.5	0.0	4040	-90	0.44	0.40	-434.6	18.0	18.3	-0.4	250	6.21
405	X	\dashv	11.78	-0.14	19.3	-0.2	3880	-160	0.73	0.29	-418.6	16.0	130	112	250	6.21
1410	Х	\dashv	11.64	-0.14		0.1	3770	-110	0.78	0.05		-1.0	55.5	-74.5	250	6.21
1415	X	\dashv	11.63	-0.01	19.4	0.0	3740	-30	0.89	0.11	-415.0	4.6	51.6	-3.9	250	6.21
1420	X		11.61	-0.02	19.4	0.0	3680	-60	1.07	0.18	-401.8	13.20	41.3	-10.3	250	6.21
1425	Х	\vdash	11.58	-0.03	19.3	-0.1	3590	-90	1.25	0.18	-400.6	1.2	35.4	-5.9	250	6.21
1430	X	Щ	11.62	0.04	19.2	-0.1	3520	-70	1.20	-0.05	-415.4	-14.8	25.3	-10.1	250	6.21
1435	Х		11.66	0.04	19.3	0.1	3530	10	0.98	-0.22	-429.4	-14.0	22.2	-3.1	250	6.21
1440	X	Щ	11.64	-0.02	19.2	-0.1	3480	-50	0.96	-0.02	-434.8	-5.4	24.9	2.7	250	6.21
1445	Х		11.68	0.04	19.3	0.1	3390	-90	1.31	0.35	-444.4	-9.6	19.9	-5.0	250	6.21
1450	х		11.69	0.01	19.4	0.1	3340	-50	1.32	0.01	-445.6	-1.2	18.9	-1.0	250	6.21
1455	x		11.71	0.02	19.4	0.0	3310	-30	1.30	-0.02	-450.6	-5.0	18.4	-0.5	250	6.21
1500				0.04	19.6	0.2	3300	-10	1.21	-0.09	-454.6	-4.0	18.0	-0.4	250	6.21
Comment	comments:						PLE CLE	EAR/NO	ODOR			<u></u>	, , , , , , , , , , , , , , , , , , ,		4	
ł				SAMP	PLED @ 1	1400										



	-												Sheet	1	of	<u> </u>
	Date:				Edgewater	•		•	Clien	t / Site:			GZA			
	Da	ite:			6/22/2007				Field Per	sonnel:		Fre	eddy Mora	les		,
W	eath	er:			80°F Sun			•		Job#						
Monitorin	g We	SI #:		MW-2		. '	Well Depth:	1	9.60	ft	Scre	ened/Op	en Interval:	NA		ft
			NA			Wel	ll Diameter:		2	inches						
PID/FID Re (ppm):	adin	ıgs	Background	d:		0.0			Pump Intak	e Depth:		17.0		ft below	тос	
			Beneath Ou	ster Cap:		0.0		- 1	Depth to Wa	iter Befor	e Pump inst	tallation:	11.9	8	ft below TC	ж
			Beneath In	ner Cap:		392	Spec	ific	Purge Disso	e Method	Bl. Redd	adder Pur	np		1	Depth to
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Conduction (us/o	ctivity :m)	Oxyg (mg/ Reading	jen 'L)	Poten (mV Reading	tial ')	Turbio (NTI Reading	ບ) ້	Pumping Rate (mi/min)	Water (ft below TOC)
0805	Х	0,	7.32	NA NA	14.9	NA NA	997	NA.	0.30	NA NA	-158.2	NA	7.32		280	12.01
0810	^		7.19 -0.13 7.12 -0.07		14.8	-0.1	1001	4	0.24	-0.06		-1.8	7.35	0.03	280	12.01
0815		7.12 -0.0			14.9	0.1	1004	3	0.21	-0.03		-0.4	6.23	-1.12	280	12.01
0820		X 7.09 -0.03			14.9	0.0	1005	1	0.20	-0.01	-160.7	-0.3	6.17	-0.06		12.01
0825	X	7.05 -0.04		14.9	0.0	1009	4	0.18	-0.02		-1.0	6.13	-0.04		12.01	
330	Х		7.02	-0.03	14.9	0.0	1012	3	0.17	-0.01	-163.0	-1.3	5.23	-0.90	280	12.01
0835	Х		7.01	-0.01	14.9	0.0	1013	1	0.16	-0.01	-164.7	-1.7	5.10	-0.13	280	12.01
0840	Х		7.02	0.01	14.9	0.0	1015	2	0.15	-0.01	-166.3	-1.6	4.67	-0.43	280	12.01
0845	x		7.01	-0.01	14.9	0.0	1013	-2	0.15	0.00	-169.7	-3.4	4.61	-0.06	280	12.01
0850	х		7.01	0.00	14.9	0.0	1018	5	0.15	0.00	-172.3	-2.6	4.35	-0.26	280	12.01
0855	х		7.01	0.00	15.0	0.1	1017	-1	0.14	-0.01	-174.0	-1.7	4.26	-0.09	280	12.01
0900	_	х	6.99	-0.02	16.1	1.1	1001	-16	0.29	0.15	-147.1	26.9	11.80	7.54	280	12.01
	<u> </u>											.,.				
		_			 											
	_	_		ļ												
		-														
		_	 													
	L	_			<u> </u>								<u></u>			
!	<u></u>			<u> </u>												
Commen	. 3.		Pump o		300 SHT ODC		le time: 0	856								

Site:													Sheet	1	of	
Site:					Edgewater				Clien	t / Site:			GZA			,
	Da	ite:			6/22/2007				Field Per	sonnel:		Fre	ddy Mora	les		,
W	eath	er:			80°F Sun					Job#						
Monitoring	g We	II #: _.		MW-61			Well Depth:	1.	4.55	ft	Scre	eened/Op	en Interval:	NA		ft
Well F	ermi	it#:	NA			Wel	l Diameter:	······································	2	inches						
PID/FID Re (ppm):	adin	_	Background	i : .		0.0			Pump Intak	e Depth:		14.0		ft below	тос	
			Beneath Ou	ter Cap:		0.0			Depth to Wa	iter Befor	e Pump Ins	tallation:	11.1	5	ft below TC)C
- "-			Beneath Inn	er Cap:		32.6	- Cross	it.		Method		adder Pur	np			Don'th 4a
TIME	Purging	Sampling	pH (pH un Reading	its)	Temper (°C Reading)	Spec Conduct (us/c Reading	tivity m)	Dissol Oxyg (mg/ Reading	en L)	Rede Poten (mV Reading	rtial /)	Turbic (NTI Reading	U)	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
0025		8					959		0.39				220			
0925	X		6.69	NA OO	14.5	NA O 1	-	NA 12		NA O 4 O	-153.7	NA 45.7		NA G2	240	11.60
0930	X	\dashv	6.72	0.03	14.4	-0.1	946	-13	0.27	-0.12			157	-63	240	11.60
0935	X		6.75	0.03	14.6	0.2	948	2	0.23	-0.04			84.1	-72.9	240	11.60
0940			6.75	0.00	14.3	-0.3	946	-2	0.22	-0.01	-192.8		64.5	-19.6	240	11.60
0945	5 X 6.		6.77	0.02	14.5	0.2	943	-3	0.22	0.00	-200.3		44.2	-20.3	240	11.60
950	X		6.77	0.00	14.4	-0.1	941	-2	0.22	0.00	-207.8	-7.5	32.7	-11.5	240	11.60
095	Х		6.78	0.01	14.6	0.2	940	-1	0.24	0.02	-215.0	-7.2	31.1	-1.6	240	11.60
1000	Х		6.78	0.00	14.8	0.2	942	2	0.25	0.01	-220.1	-5.1	31.1	0.0	240	11.60
1005	Х		6.77	-0.01	14.8	0.0	943	1	0.30	0.05	-224.2	-4.1	28.8	-2.3	240	11.60
1010	X		6.76	-0.01	14.8	0.0	942	-1	0.31	0.01	-228.2	-4.0	34.6	5.8	240	11.60
1015	X		6.76	0.00	15.0	0.2	940	-2	0.35	0.04	-230.7	-2.5	20.7	-13.9	240	11.60
1020	х		6.75	-0.01	15.0	0.0	939	-1	0.38	0.03	-235.6	-4.9	18.9	-1.8	240	11.60
1025	х		6.74	-0.01	14.5	-0.5	940	1	0.36	-0.02	-237.2	-1.6	18.6	-0.3	240	11.60
1030	х		6.75	0.01	14.5	0.0	941	1	0.39	0.03	-242.3	-5.1	23.1	4.5	240	11.60
1035	х		6.74	-0.01	14.5	0.0	934	-7	0.51	0.12	-241.1	1.2	24.6	1.5	240	11.60
1040	х		6.75	0.01	14.5	0.0	933	-1	0.50	-0.01	-241.2	-0.1	24.1	-0.5	240	11.60
1045	x		6.76	0.01	14.6	0.1	930	-3	0.48	-0.02	-242.8	-1.6	24.4	0.3	240	11.60
1050				0.02	14.6	0.0	930	0	0.40	-0.08	-235.6	7.2	20.1	-4.3	240	11.60
Commen	s:		Pump o		920 BFT. BEL	•	le time: 1 ATER, V		S ONLY	14.55F	T DEEP.					

													Sheet	1	of	1
	Site:				Edgewater	•			Clien	t / Site:			GZA			
	Da	te:			6/22/2007		······································		Field Per	sonnel:		Fre	ddy Mora	les		
W	eath	er:			80°F Sun					Job#						
Monitorin	g We	II #: ₋		MW-8			Well Depth:	1	6.31	ft	Scre	ened/Op	en Interval:	NA		ft
Well I		_	NA			Wel	l Diameter:		2	inches						
PID/FID Ro (ppm):	eadin	_	Background	d:		0.0			Pump Intak	e Depth:		13.0		ft below	тос	
			Beneath Ou	iter Cap:		0.0			Depth to Wa	iter Befor	e Pump Ins	tallation:	8.22	2	ft below TC	С
		1	Beneath Inr	ner Cap:		0.0	Spec	Isio	Purge	Method	BI Rede	adder Pur	np			Depth to
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Conduction (us/c	tivity m)	Oxyg (mg/ Reading	en 'L)	Poten (mV Reading	tial ')	Turbic (NT) Reading	J)	Pumping Rate (ml/min)	Water (ft below TOC)
1125	X	<u>"</u>	6.63	NA.	15.3	NA NA	1403	NA.	0.38	NA NA	-209.6	NA .	19.6	NA.	280	8.22
1130	X		6.63 0.00 6.65 0.02		15.1	-0.2	1354	-49	0.34	-0.04		-6.8	13.4	-6.2	280	8.22
1135	Х	6.65 0.02		0.02	15.0	-0.1	1263	-91	0.33	-0.01	-228.5	-12.1	12.6	-0.8	280	8.22
1140	х	6.67 0.02		0.02	15.0	0.0	1208	-55	0.31	-0.02	-238.1	-9.6	13.0	0.4	280	8.22
1145	х		6.68 0.01		14.9	-0.1	1190	-18	0.31	0.00	-245.4	-7.3	13.3	0.3	280	8.22
150	х				14.9	0.0	1201	11	0.31	0.00	-248.8	-3.4	13.8	0.5	280	8.22
1155	х		6.68	0.00	14.9	0.0	1178	-23	0.32	0.01	-255.4	-6.6	13.7	-0.1	280	8.22
1200	х		6.69	0.01	14.9	0.0	1154	-24	0.32	0.00	-260.7	-5.3	13.4	-0.3	280	8.22
1205	x		6.69	0.00	14.9	0.0	1174	20	0.32	0.00	-265.0	-4.3	13.1	-0.3	280	8.22
1210	х		6.69	0.00	14.9	0.0	1165	-9	0.31	-0.01	-268.0	-3.0	13.2	0.1	280	8.22
1215	х		6.69	0.00	14.9	0.0	1158	-7	0.31	0.00	-269.3	-1.3	13.0	-0.2	280	8.22
1220		х	6.71	0.02	14.9	0.0	1095	-63	0.41	0.10	-226.8	42.5	17.5	4.5	280	8.22
ļ																
	_						-									
	_															
	_	_														
	_															
<u> </u>	_	<u> </u>									·					
Commen	ts:		Pump o	n @ 11	120	Samp	le time: 1	216								

													Sheet		of	1
	Site: Date:				Edgewater				Clien	t / Site:			GZA			
	Da	ite: .			6/22/2007	<u>~</u>			Field Per	sonnel:		Ed	Levendos	iky		
W	eath	er:			80°F Sun					Job#						
Monitorin	g We	11 #: .		MW-71		,	Well Depth:	2	4.33	.ft	Scre	ened/Op	en Interval:	NA		ft
Well I	erm	it#:	NA	···		We	l Diameter:		2	inches			· · · · · · · · · · · · · · · · · · ·			
PID/FID Ro (ppm):	eadin		Background	d:		0.0		•	Pump Intak	e Depth:		16.5		ft below	тос	
			Beneath Ou	iter Cap:		0.0		!	Depth to Wa	iter Befor	e Pump Ins	tallation:	11.3	18	ft below TC	С
			Beneath Inr	ner Cap:		30.0			Purge	Method		adder Pur	np	•		
TIME	Purging	Sampling	pH (pH ur	nits)	Temper)	Spec Conduc (us/c Reading	tivity m)	Dissol Oxyg (mg/	en L)	Redo Poten (mV	tia l ')	Turbio	J)	Pumping Rate	Depth to Water (ft below TOC)
		8	Reading	Change	Reading	Criange		Change		Change	Reading	Change		Charige	(ml/min)	
0818	Х	\dashv	8.14	NA .	14.5	NA	1187	NA	1.18	NA NA	-169.9	NA NA	102.8	NA	260	11.38
0823	828 X 7.00			-0.44	14.3	-0.2	1199	12	1.09	-0.09	-169.8	0.1	7.51	-95.29	260	11.38
0828				-0.70	14.2	-0.1	1174	-25	1.13	0.04	-159.7	10.1	5.83	-1.68	260	11.38
0833	33 X 7.53			0.53	14.1	-0.1	1174	0	0.83	-0.30	-159.6	0.1	5.66	-0.17	260	11.38
0838	38 X 7.39			-0.14	14.2	0.1	1184	10	0.68	-0.15	-158.6	1.0	6.91	1.25	260	11.38
843				0.01	14.1	-0.1	1181	-3	0.63	-0.05	-158.7	-0.1	4.46	-2.45	260	11.38
0848	х		7.44	0.04	14.2	0.1	1166	-15	0.43	-0.20	-158.7	0.0	5.32	0.86	260	11.38
0853	х		7,43	-0.01	14.2	0.0	1173	7	0.33	-0.10	-158.7	0.0	8.16	2.84	260	11.38
0858	х		7.41	-0.02	14.2	0.0	1173	0	0.28	-0.05	-158.8	-0.1	8.09	-0.07	260	11.38
0903	х		7.40	-0.01	14.2	0.0	1178	5	0.24	-0.04	-158.8	0.0	1.92	-6.17	260	11.38
0908	x		7.40	0.00	14.2	0.0	1178	0	0.24	0.00	-158.8	0.0	1.94	0.02	260	11.38
0813	X		7.40	0.00	14.2	0.0	1176	-2	0.24	0.00	-158.8	0.0	1.86	-0.08	260	11.38
0918		Х	7.39	-0.01	14.2	0.0	1162	-14	0.16	-0.08	-159.9	-1.1	6.73	4.87	260	11.38
															,	
							:									
Commen	Comments:						PLE CLE		IGHT O	OOR						
l				SAMF	LED@ 0	914	FB@	1030								

													Sneet	1	Of	
	Site: Date: Weather:			1	Edgewater	•			Clien	t / Site:			GZA			,
	Da	ite:			6/22/2007				Field Per	sonnel:	·······	Ed	Levendos	ky	· · · ·	
W	eath	er:			80°F Sun					Job#						
Monitorin	g We	11 #:		MW-40		,	Well Depth:	11	6.98	ft	Scr	eened/Op	en interval:	NA		ft
			NA			Wel	l Diameter:		2	inches		· · · · · · · · · · · · · · · · · · ·	 		·	
PID/FID Ro (ppm):	eadir		Background	d :		0.0			Pump Intak	e Depth:		14.0		ft below	тос	
			Beneath Ou	ter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump Ins	tallation:	9.0	0	ft below TC	С
	_		Beneath Inr	ner Cap:		8.0	Spec	ific i	Purge Disso		Bi Red		np	•	I	Depth to
TIME	Purging	Sampling	pH (pH ur	nits)	Temper)	Conduc (us/c	tivity m)	Oxyg (mg/	en L)	Poten (m\	itial /)	Turbi (NT)	ل ا) ُ	Pumping Rate	Water (ft below
		Š	Reading	Change		Change	Reading	Change	Reading	Change		Change	Reading	Change	(ml/min)	TOC)
1010			7.83	NA .	14.8	NA NA	320	NA NA	0,65	NA	-58.7	NA.	28.1	NA NA	400	9.03
1015	X		7.70	-0.13	14.8	0.0	316	-4	0.41	-0.24	-49.0	9.7	18.2	-9.9	400	9.03
1020	X		7.68	-0.02	14.8	0.0	313	-3	0.23	-0.18	-49.2	-0.2	6.90	-11.30	400	9.03
1025	X		7.67	-0.01	14.8	0.0	312	-1	0.17	-0.06	-49.3	-0,1	6.96	0.06	400	9.03
1030	Х		7.64	-0.03	14.8	0.0	311	-1	0.14	-0.03	-49.4	-0.1	5.98	-0.98	400	9.03
ე35	x		7.64 -0.00 7.64 0.00		14.7	-0.1	310	-1	0.09	-0.05	-49.6	-0.2	5.63	-0.35	400	9.03
1040	x		7.65	0.01	14.8	0.1	311	1	0.10	0.01	-49.7	-0.1	5.12	-0.51	400	9.03
1045	x		7.64	-0.01	14.9	0.1	312	1	0.11	0.01	-49.7	0.0	5.10	-0.02	400	9.03
1050	x		7.64	0.00	14.9	0.0	312	0	0.19	0.08	-49.7	0.0	5.11	0.01	400	9.03
1055		х	7.56	-0.08	15.6	0.7	326	14	0.14	-0.05	-49.2	0.5	5.44	0.33	400	9.03
								:								
						ļ										
	†															
	\vdash															
	T		 								<u> </u>					
									·							
				<u> </u>							<u></u>					
Commen	Comments:			PUMF	ON 100	I 5 SAN	L MPLE CL	EAR/N	O ODOF	 	<u> </u>					
	comments:				LED @											i

													Sneet		OT	
	Si	ite:			Edgewater	·			Clien	t / Site:			GZA			
	Da	ite:			6/22/2007				Field Pers	sonnei:		Fre	ddy Mora	les		
W	eath	er:			80°F Sun					Job#						
Monitorin	g We	II #:		MW-60			Well Depth:	1.	4.70	ft	Scre	eened/Op	en interval:	NA_		ft
Well I	erm	it #:	NA NA			Wel	i Diameter:		2	inches						
PID/FID Ro (ppm):	eadin		Background	d:		0.0	· · · · · · · · · · · · · · · · · · ·	,	Pump Intak	e Depth:		11.0		ft below	тос	
			Beneath Ou	ter Cap:		0.0		. 1	Depth to Wa	ter Befor	e Pump inst	tallation:	5.7	4	ft below TO	С
			Beneath Inr	ner Cap:		9.8		·	Purge	Method	В	adder Pur	mp	•		
TIME	Purging	Sampling	pH (pH un	ilts)	Temper (°C)	Spec Conduc (us/c	tivity m)	Dissol Oxyg (mg/	en L)	Redo Poten (mV	tial /)	Turbi	υ) ້	Pumping Rate	Depth to Water (ft below
	ā.	Š	Reading	Change	Reading	Change	1206	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1245	х		4.67	NA.	16.3	NA NA	1206	NA .	1.60	NA.	-39.1	NA	33.2	NA NA	380	6.63
1250	X 4.29 -0.38 X 4.58 0.29			17.3	1.0	1681	475	1.30	-0.30	7.9	47.0	21.5	-11.7	380	6.63	
1255	х					-0.4	1713	32	0.92	-0.38	-1.5	-9.4	18.3	-3.2	380	6.63
1300	х		4.76 0.18 16.			-0.2	1710	-3	0.85	-0.07	-6.8	-5.3	17.2	-1.1	380	6.63
1305	x	5.37 0.61 16.			16.8	0.1	1817	107	1.49	0.64	-13.5	-6.7	19.6	2.4	280	8.73
310	х		5.37 0.61 16.8 5.56 0.19 16.8			0.0	1831	14	1.73	0.24	-14,1	-0.6	13.2	-6.4	200	9.55
1315	х		5.64	0.08	17.0	0.2	1830	-1	1.88	0.15	-9.6	4.5	5.75	-7.45	200	9.70
1320	х		5.69	0.05	17.1	0.1	1836	6	2.00	0.12	- 5.6	4.0	5.85	0.10	200	9.80
1325	х		5.71	0.02	16.8	-0.3	1844	8	2.04	0.04	-3.4	2.2	5.64	-0.21	200	9.88
1330		Х	5.82	0.11	18.5	1.7	1831	-13	2.04	0.00	15.1	18.5	16.61	10.97	200	9.88
					1								-			
	\vdash			-												
Common	Comments:			DI IME	ON @	1240			<u> </u>			L	<u> </u>	l	J	
Commen	Comments:			SAMF	PLED @	1326	E TAKEN	I.								

								,					Sneet		. Of	1
Date:					Edgewate	<u>r</u>		•	Clien	t / Site:			GZA			
	Da	ite:	•		6/25/2007			•	Field Per	sonnel:		St	eve Schul	ze		
W	eath	er:			63°F Sun		······		· · · · · ·	Job#						
Monitorin	g We	IJ#: _.		MW-26		. '	Well Depth:	1	2.70	ft	Scr	eened/Op	en Interval:	NA		ft
			NA NA			Wel	ll Diameter:		2	inches						
PID/FID R (ppm):	eadin	gs	Background	d:		0.0		-	Pump Intak	e Depth:		11.0		ft below	тос	
			Beneath Ou	ıter Cap:		0.0			Depth to Wa	iter Befor	e Pump Ins	tallation:	5.7	3	ft below TO	С
			Beneath in	ner Cap:		0.0		•	Purge	Method	В	adder Pur	пр	•		
TIME	Purging	Sampling	pH (pH ur	nits)	Temper (°C)	Spec Conduc (us/c	tivity m)	Disso Oxyg (mg/	en L)	Rede Poten (m\	tial ')	Turbi (NTI	u) i	Pumping Rate	Depth to Water (ft below
		Ű	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
0814	Х	\dashv	6.87	NA	16.7	NA NA	9560	NA NA	1.15	NA	-223.6	NA NA	71.2	NA.	180	5.84
0819			6.87	0.00	15.6	-1.1	9580	20	0.93	-0.22	-286.5	-62.9	58.2	-13.0	100	6.98
0824			0.02	16.1	0.5	9240	-340	0.66	-0.27	-302.6	-16.1	46.4	-11.8	100	7.41	
0829	9 X 6.91		0.02	16.5	0.4	8850	-390	0.66	0.00	-309.3	-6.7	52.9	6.5	100	7.62	
0834	X 6.94 0.03		0.03	16.2	-0.3	8320	-530	0.73	0.07	-312.2	-2.9	48.9	-4.0	100	8.13	
339	x		6.92	-0.02	17.3	1.1	8280	-40	0.51	-0.22	-320.3	-8.1	39.0	-9.9	100	8.31
0844	х		6.91	-0.01	17.4	0.1	8320	40	0.50	-0.01	-325.5	-5.2	41.7	2.7	100	8.47
0849	х		6.90	-0.01	17.5	0.1	8280	-40	0.49	-0.01	-328.5	-3.0	40.6	-1.1	100	8.52
0854		Х	6.90	0.00	17.6	0.1	8390	110	0.46	-0.03	-330.8	-2.3	38.6	-2.0	100	8.60
											<u></u>		<u>.</u>			
													·			
		Γ														
											-					
Commen	ts:		Pump of	n @ 08	<u></u> 311	Samol	e time: 0	850				<u></u>				
}	Comments:															

													Sheet	1	of	1
	Si	te:		E	Edgewater				Clien	t / Site:			GZA			:
	Da	te: _			6/25/2007				Field Per	sonnel:	· •	St	eve Schul	ze		
W	eath	er: _			72°F Sun			,		Job#						
Monitoring	y Wel	1#:_		MW-65		1	Well Depth:	1:	3.30	ft	Scre	ened/Op	en Interval:	NA		ft
Well F	ermi	t#:_	NA			Wel	Il Diameter:		2	inches			_			
PID/FID Re (ppm):	adin		Background	d: _		0.0			Pump Intak	e Depth:		10.0		ft below	тос	
			Beneath Ou	ter Cap:		0.0			Depth to Wa	ter Befor	e Pump Ins	allation:	4.7	2	ft below TC	С
			Beneath Inr	er Cap:		0.9					В		np			
TIME	Purging	Sampling	pH (pH un	its)	Temper (°C Reading)	Spec Conduc (us/c Reading	ctivity m)	Dissol Oxyg (mg/ Reading	en L)	Redo Poten (mV Reading	tial ')	Turbic (NTI Reading	J)	Pumping Rate	Depth to Water (ft below TOC)
		<u>~</u>	Reading	Change		Change	-	Change		Change		Change		Change	(mi/min)	
0958	×	\dashv	6.59	NA	19.1	NA	9100	NA NA	0.99	NA .	-253.9	NA .	385	NA	250	4.74
1003	8 X 6.45 -0.02				15.9	-3.2	7150	-1950	1.02	0.03	-289.4	-35.5	441	56	250	4.74
1008				-0.02	15.6	-0.3	5920	-1230	1.11	0.09	-299.2	-9.8	397	-44	250	4.74
1013	3 X 6.44 -0.01			15.7	0.1	5330	-590	1.00	-0.11	-307.0	-7.8	291	-106	250	4.74	
1018	X 6.44 0.00			15.8	0.1	5770	440	0.84	-0.16	-311.4	-4.4	199	-92	250	4.74	
023	х		6.44	0.00	15.8	0.0	4920	-850	0.71	-0.13	-316.2	-4.8	128	-71	250	4.74
1028	х		6.44	0.00	15.8	0.0	4840	-80	0.68	-0.03	-319.4	-3.2	74.9	-53.1	250	4.74
1033	x		6.44	0.00	15.8	0.0	4670	-170	0.59	-0.09	-323.0	-3.6	56.7	-18.2	250	4.74
1038	х		6.45	0.01	15.8	0.0	4470	-200	0.65	0.06	-325.5	-2.5	42.3	-14.4	250	4.74
1043	х		6.45	0.00	15.8	0.0	4340	-130	0.62	-0.03	-327.2	-1.7	30.5	-11.8	250	4.74
1048	х		6.45	0.00	15.9	0.1	4200	-140	0.64	0.02	-328.8	-1.6	25.0	-5.5	250	4.74
1053	х		6.45	0.00	16.0	0.1	4110	-90	0.60	-0.04	-330.1	-1.3	20.9	-4.1	250	4.74
1058	х		6.45	0.00	16.1	0.1	4030	-80	0.56	-0.04	-331.2	-1.1	16.8	-4.1	250	4.74
1103	х		6.45	0.00	16.0	-0.1	3910	-120	0.56	0.00	-332.0	-0.8	15.0	-1.8	250	4.74
1108	х		6.45	0.00	16.1	0.1	3870	-40	0.53	-0.03	-332.4	-0.4	12.5	-2.5	250	4.74
1113	Х		6.46	0.01	16.0	-0.1	3810	-60	0.51	-0.02	-333.1	-0.7	10.25	-2.25	250	4.74
1118	х		6.46	0.00	16.0	0.0	3750	-60	0.51	0.00	-333.7	-0.6	10.47	0.22	250	4.74
1123					16.0	0.0	3730	-20	0.49	-0.02	-334.2	-0.5	10.18	-0.29	250	4.74
1128		Х		0.00	16.1	0.1	3700	-30	0.46	-0.03	-336.9	-2.7	10.06	-0.12	250	4.74
	Γ															
Commen	omments: Pump on @ 0955						la tima = : 4	124	•						t	
			Rumb o	n @ 0	900	Samp	le time: 1	124								

Well Permit #: NA Well Diameter: 2 inches PID/FID Readings (ppm): Background: 0.0 Pump Intake Depth: 9.0 ft below TOC Beneath Outer Cap: 0.0 Depth to Water Before Pump Installation: 3.73 ft below TOC Beneath Inner Cap: 23.0 Purge Method Bladder Pump TIME B B PH Temperature Conductivity Oxygen Potential Turbidity Pumping				· · · · · · · · · · · · · · · · · · ·										Sheet		of	
Monitoring Well 8:		Si	te: _		E	Edgewater				Clien	t / Site:			GZA			
Monitoring Wall #: NA		Da	te:_			6/25/2007				Field Pers	sonnel:		Ste	eve Schul	ze		:
PIDIFID Readings Property P	W	eath	er: _			80°F Sun					Job#						
Pump Intake Depth: Pump Intake Depth:	Monitoring	y Wel	li #:_		MW-58		1	Well Depth:	1	1.77	ft	Scre	ened/Op	en Interval:	NA		ft
Senesth Outer Cap: Senesth				NA			Wel	l Diameter:		2	inches	,		·			
Time Fig. Fig. Fig. Time		adin		Background	t: .		0.0			Pump Intak	e Depth:		9.0	·	ft below	тос	
TIME B			ı	Beneath Ou	ter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump inst	allation:	3.73	3	ft below TO	ж
Time Fig. Fig. Physical Charge Conductive Congress C				Beneath Inn	er Cap:		23.0							np		1	Danish to
1204 X 6.84 NA 16.9 NA 3070 NA 0.63 NA -302.9 NA 2860 NA 300 1209 X 6.79 -0.05 16.1 -0.8 2960 -110 0.60 -0.03 -325.1 -22.2 1600 -1260 300 1214 X 6.77 -0.02 16.1 0.0 2890 -70 0.52 -0.08 -332.4 -7.3 390 -1210 300 1219 X 6.72 -0.05 15.9 -0.2 2880 -10 0.53 0.01 -340.4 -8.0 227 -163 300 1224 X 6.79 0.07 15.3 -0.6 2870 -10 0.52 -0.01 -352.4 -12.0 144 -83 300 1224 X 6.81 0.02 15.1 -0.2 2870 0 0.57 0.02 -364.6 -4.6 76.0 -29.6	TIME	urging	ampling	(pH un	its)	(°C)	Conduc (us/c	ctivity m)	Oxyg (mg/	en L)	Poten (mV	tial ')	(NTI	J)	Rate	Depth to Water (ft below TOC)
1209 X 6.79 -0.05 16.1 -0.8 2960 -110 0.60 -0.03 -325.1 -22.2 1600 -1260 300 1214 X 6.77 -0.02 16.1 0.0 2890 -70 0.52 -0.08 -332.4 -7.3 390 -1210 300 1219 X 6.72 -0.05 15.9 -0.2 2880 -10 0.53 0.01 -340.4 -8.0 227 -163 300 1224 X 6.79 0.07 15.3 -0.6 2870 -10 0.52 -0.01 -352.4 -12.0 144 -83 300 1234 X 6.81 0.02 15.1 -0.2 2870 0 0.57 0.02 -364.6 -4.6 76.0 -29.6 300 1239 X 6.83 0.03 15.0 0.0 2860 -10 0.57 0.00 -369.4 -4.8 55.7 -20.3	1204		╣													300	3.84
1214 X 6.77 -0.02 16.1 0.0 2890 -70 0.52 -0.08 -332.4 -7.3 390 -1210 300 1219 X 6.72 -0.05 15.9 -0.2 2880 -10 0.53 0.01 -340.4 -8.0 227 -163 300 1224 X 6.79 0.07 15.3 -0.6 2870 -10 0.52 -0.01 -352.4 -12.0 144 -83 300 1229 X 6.81 0.02 15.1 -0.2 2870 0 0.55 0.03 -360.0 -7.6 105.6 -38.4 300 1234 X 6.80 -0.01 15.1 0.0 2870 0 0.57 0.02 -364.6 -4.6 76.0 -29.6 300 1239 X 6.83 0.00 15.0 0.0 2860 0 0.58 0.01 -372.2 -2.8 40.3 -15.4														· · · · · · · · · · · · · · · · · · ·			3.85
1219 X 6.72 -0.05 15.9 -0.2 2880 -10 0.53 0.01 -340.4 -8.0 227 -163 300 1224 X 6.79 0.07 15.3 -0.6 2870 -10 0.52 -0.01 -352.4 -12.0 144 -83 300 1229 X 6.81 0.02 15.1 -0.2 2870 0 0.55 0.03 -360.0 -7.6 105.6 -38.4 300 1234 X 6.80 -0.01 15.1 0.0 2870 0 0.57 0.02 -364.6 -4.6 76.0 -29.6 300 1239 X 6.83 0.03 15.0 -0.1 2860 -10 0.57 0.00 -364.6 -4.6 76.0 -29.6 300 1249 X 6.84 0.01 15.0 0.0 2860 0 0.56 -0.02 -375.9 -3.7 36.4 -3.9																	3.86
1224 X 6.79 0.07 15.3 -0.6 2870 -10 0.52 -0.01 -352.4 -12.0 144 -83 300 229 X 6.81 0.02 15.1 -0.2 2870 0 0.55 0.03 -360.0 -7.6 105.6 -38.4 300 1234 X 6.80 -0.01 15.1 0.0 2870 0 0.57 0.02 -364.6 -4.6 76.0 -29.6 300 1239 X 6.83 0.03 15.0 -0.1 2860 -10 0.57 0.00 -369.4 -4.8 55.7 -20.3 300 1244 X 6.83 0.00 15.0 0.0 2860 0 0.58 0.01 -372.2 -2.8 40.3 -15.4 300 1249 X 6.84 0.01 15.0 0.0 2860 0 0.57 0.01 -378.7 -2.8 25.0 -11.4																	3.88
229 X 6.81 0.02 15.1 -0.2 2870 0 0.55 0.03 -360.0 -7.6 105.6 -38.4 300 1234 X 6.80 -0.01 15.1 0.0 2870 0 0.57 0.02 -364.6 -4.6 76.0 -29.6 300 1239 X 6.83 0.03 15.0 -0.1 2860 -10 0.57 0.00 -369.4 -4.8 55.7 -20.3 300 1244 X 6.83 0.00 15.0 0.0 2860 0 0.58 0.01 -372.2 -2.8 40.3 -15.4 300 1249 X 6.84 0.01 15.0 0.0 2860 0 0.56 -0.02 -375.9 -3.7 36.4 -3.9 300 1254 X 6.84 0.00 15.0 0.0 2850 0 0.57 0.01 -378.7 -2.8 25.0 -11.4																	
1234 X 6.80 -0.01 15.1 0.0 2870 0 0.57 0.02 -364.6 -4.6 76.0 -29.6 300 1239 X 6.83 0.03 15.0 -0.1 2860 -10 0.57 0.00 -369.4 -4.8 55.7 -20.3 300 1244 X 6.83 0.00 15.0 0.0 2860 0 0.58 0.01 -372.2 -2.8 40.3 -15.4 300 1249 X 6.84 0.01 15.0 0.0 2860 0 0.56 -0.02 -375.9 -3.7 36.4 -3.9 300 1254 X 6.84 0.00 15.0 0.0 2860 0 0.57 0.01 -378.7 -2.8 25.0 -11.4 300 1259 X 6.84 0.00 15.0 0.0 2850 -10 0.58 0.01 -380.1 -1.4 21.9 -3.1 300 1304 X 6.85 0.01 15.0 0.0 2850 0 0.55 -0.03 -381.4 -1.3 17.3 -4.6 300 1309 X 6.84 -0.01 15.2 0.2 2860 10 0.54 -0.01 -381.6 -0.2 14.3 -3.0 300 1314 X 6.84 0.00 15.0 -0.2 2850 -10 0.54 0.00 -381.9 -0.3 11.8 -2.5 300 1319 X 6.84 0.00 15.0 0.0 2840 -10 0.53 -0.01 -381.7 0.2 8.67 -3.13 300 1329 X 6.85 0.01 15.0 0.0 2840 -10 0.52 0.02 -383.4 -0.7 8.11 -0.36 300			\blacksquare														3.90
1239 X 6.83 0.03 15.0 -0.1 2860 -10 0.57 0.00 -369.4 -4.8 55.7 -20.3 300 1244 X 6.83 0.00 15.0 0.0 2860 0 0.58 0.01 -372.2 -2.8 40.3 -15.4 300 1249 X 6.84 0.01 15.0 0.0 2860 0 0.56 -0.02 -375.9 -3.7 36.4 -3.9 300 1254 X 6.84 0.00 15.0 0.0 2860 0 0.57 0.01 -378.7 -2.8 25.0 -11.4 300 1259 X 6.84 0.00 15.0 0.0 2850 -10 0.58 0.01 -380.1 -1.4 21.9 -3.1 300 1304 X 6.85 0.01 15.0 0.0 2850 0 0.55 -0.03 -381.4 -1.3 17.3 -4.6 300 1314 X 6.84 0.00			\dashv														3.91
1244 X 6.83 0.00 15.0 0.0 2860 0 0.58 0.01 -372.2 -2.8 40.3 -15.4 300 1249 X 6.84 0.01 15.0 0.0 2860 0 0.56 -0.02 -375.9 -3.7 36.4 -3.9 300 1254 X 6.84 0.00 15.0 0.0 2860 0 0.57 0.01 -378.7 -2.8 25.0 -11.4 300 1259 X 6.84 0.00 15.0 0.0 2850 -10 0.58 0.01 -380.1 -1.4 21.9 -3.1 300 1304 X 6.85 0.01 15.0 0.0 2850 0 0.55 -0.03 -381.4 -1.3 17.3 -4.6 300 1309 X 6.84 -0.01 15.2 0.2 2860 10 0.54 -0.01 -381.6 -0.2 14.3 -3.0			H														3.91
1249 X 6.84 0.01 15.0 0.0 2860 0 0.56 -0.02 -375.9 -3.7 36.4 -3.9 300 1254 X 6.84 0.00 15.0 0.0 2860 0 0.57 0.01 -378.7 -2.8 25.0 -11.4 300 1259 X 6.84 0.00 15.0 0.0 2850 -10 0.58 0.01 -380.1 -1.4 21.9 -3.1 300 1304 X 6.85 0.01 15.0 0.0 2850 0 0.55 -0.03 -381.4 -1.3 17.3 -4.6 300 1309 X 6.84 -0.01 15.2 0.2 2860 10 0.54 -0.01 -381.6 -0.2 14.3 -3.0 300 1314 X 6.84 0.00 15.0 -0.2 2850 -10 0.54 0.00 -381.9 -0.3 11.8 -2.5	1239		\vdash	6.83													3.91
1254 X 6.84 0.00 15.0 0.0 2860 0 0.57 0.01 -378.7 -2.8 25.0 -11.4 300 1259 X 6.84 0.00 15.0 0.0 2850 -10 0.58 0.01 -380.1 -1.4 21.9 -3.1 300 1304 X 6.85 0.01 15.0 0.0 2850 0 0.55 -0.03 -381.4 -1.3 17.3 -4.6 300 1309 X 6.84 -0.01 15.2 0.2 2860 10 0.54 -0.01 -381.6 -0.2 14.3 -3.0 300 1314 X 6.84 0.00 15.0 -0.2 2850 -10 0.54 0.00 -381.9 -0.3 11.8 -2.5 300 1319 X 6.84 0.00 15.0 0.0 2840 -10 0.53 -0.01 -381.7 0.2 8.67 -3.13	1244	X	$\left \cdot \right $	6.83	0.00	15.0	0.0	2860	0					 			3.91
1259 X 6.84 0.00 15.0 0.0 2850 -10 0.58 0.01 -380.1 -1.4 21.9 -3.1 300 1304 X 6.85 0.01 15.0 0.0 2850 0 0.55 -0.03 -381.4 -1.3 17.3 -4.6 300 1309 X 6.84 -0.01 15.2 0.2 2860 10 0.54 -0.01 -381.6 -0.2 14.3 -3.0 300 1314 X 6.84 0.00 15.0 -0.2 2850 -10 0.54 0.00 -381.9 -0.3 11.8 -2.5 300 1319 X 6.84 0.00 15.0 0.0 2840 -10 0.53 -0.01 -381.7 0.2 8.67 -3.13 300 1324 X 6.85 0.01 15.0 0.0 2850 10 0.50 -0.03 -382.7 -1.0 8.47 -0.20 300 1329 X 6.85 0.00 15.0 0.0 2840 </td <td>1249</td> <td>X</td> <td>Н</td> <td>6.84</td> <td>0.01</td> <td>15.0</td> <td>0.0</td> <td>2860</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.91</td>	1249	X	Н	6.84	0.01	15.0	0.0	2860	0								3.91
1304 X 6.85 0.01 15.0 0.0 2850 0 0.55 -0.03 -381.4 -1.3 17.3 -4.6 300 1309 X 6.84 -0.01 15.2 0.2 2860 10 0.54 -0.01 -381.6 -0.2 14.3 -3.0 300 1314 X 6.84 0.00 15.0 -0.2 2850 -10 0.54 0.00 -381.9 -0.3 11.8 -2.5 300 1319 X 6.84 0.00 15.0 0.0 2840 -10 0.53 -0.01 -381.7 0.2 8.67 -3.13 300 1324 X 6.85 0.01 15.0 0.0 2850 10 0.50 -0.03 -382.7 -1.0 8.47 -0.20 300 1329 X 6.85 0.00 15.0 0.0 2840 -10 0.52 0.02 -383.4 -0.7 8.11 -0.36	1254	X		6.84	0.00	15.0	0.0	2860	0	0.57	0.01	-378.7	- 2.8	25.0	-11.4	300	3.91
1309 X 6.84 -0.01 15.2 0.2 2860 10 0.54 -0.01 -381.6 -0.2 14.3 -3.0 300 1314 X 6.84 0.00 15.0 -0.2 2850 -10 0.54 0.00 -381.9 -0.3 11.8 -2.5 300 1319 X 6.84 0.00 15.0 0.0 2840 -10 0.53 -0.01 -381.7 0.2 8.67 -3.13 300 1324 X 6.85 0.01 15.0 0.0 2850 10 0.50 -0.03 -382.7 -1.0 8.47 -0.20 300 1329 X 6.85 0.00 15.0 0.0 2840 -10 0.52 0.02 -383.4 -0.7 8.11 -0.36 300	1259	X		6.84	0.00	15.0	0.0	2850	-10	0.58	0.01	-380.1	-1.4	21.9	-3.1	300	3.91
1314 X 6.84 0.00 15.0 -0.2 2850 -10 0.54 0.00 -381.9 -0.3 11.8 -2.5 300 1319 X 6.84 0.00 15.0 0.0 2840 -10 0.53 -0.01 -381.7 0.2 8.67 -3.13 300 1324 X 6.85 0.01 15.0 0.0 2850 10 0.50 -0.03 -382.7 -1.0 8.47 -0.20 300 1329 X 6.85 0.00 15.0 0.0 2840 -10 0.52 0.02 -383.4 -0.7 8.11 -0.36 300	1304	X		6.85	0.01	15.0	0.0	2850	0	0.55	-0.03	-381.4	-1.3	17.3	-4.6	300	3.91
1319 X 6.84 0.00 15.0 0.0 2840 -10 0.53 -0.01 -381.7 0.2 8.67 -3.13 300 1324 X 6.85 0.01 15.0 0.0 2850 10 0.50 -0.03 -382.7 -1.0 8.47 -0.20 300 1329 X 6.85 0.00 15.0 0.0 2840 -10 0.52 0.02 -383.4 -0.7 8.11 -0.36 300	1309	x		6.84	-0.01	15.2	0.2	2860	10	0.54	-0.01	-381.6	-0.2	14.3	-3.0	300	3.91
1324 X 6.85 0.01 15.0 0.0 2850 10 0.50 -0.03 -382.7 -1.0 8.47 -0.20 300 1329 X 6.85 0.00 15.0 0.0 2840 -10 0.52 0.02 -383.4 -0.7 8.11 -0.36 300	1314	x		6.84	0.00	15.0	-0.2	2850	-10	0.54	0.00	-381.9	-0.3	11.8	-2.5	300	3.91
1329 X 6.85 0.00 15.0 0.0 2840 -10 0.52 0.02 -383.4 -0.7 8.11 -0.36 300	1319	x		6.84	0.00	15.0	0.0	2840	-10	0.53	-0.01	-381.7	0.2	8.67	-3.13	300	3.91
	1324	x		6.85	0.01	15.0	0.0	2850	10	0.50	-0.03	-382.7	-1.0	8.47	-0.20	300	3.91
1334 X 6.87 0.02 15.3 0.3 2830 -10 0.55 0.03 -380.4 3.0 8.00 -0.11 300	1329	x		6.85	0.00	15.0	0.0	2840	-10	0.52	0.02	-383.4	-0.7	8.11	-0.36	300	3.91
	1334		x	6.87	0.02	15.3	0.3	2830	-10	0.55	0.03	-380.4	3.0	8.00	-0.11	300	3.91
Comments: Pump on @ 1201 Sample time: 1330	Commen	ts:		Pump o	n <i>@</i> 12	201	Samo	le time:	1330								

													Sneet	1	ОТ	
	s	ite:			Edgewater			•	Clien	t / Site:			GZA			
	Da	ite:			6/25/2007			•	Field Per	sonnel:		To	om Lesins	ki		,
W	eath	er:			80°F Sun			•		Job#						
Monitorin	g We	B#:		MW-68			Well Depth:	1	1.80	ft	Scre	ened/Op	en Interval:	NA		ft
			NA			We	ll Diameter:		2 .	inches						
PID/FID Ro (ppm):	eadin		Background	d:		0.0	 	_	Pump Intak	e Depth:		10.5		ft below	тос	
			Beneath Ou	iter Cap:		0.0			Depth to Wa	iter Befor	e Pump Ins	allation:	5.3	2	ft below TC	ж
		<u></u>	Beneath Inr	ner Cap:		0.0					Bl		пр			
TIME	Purging	Sampling	pH (pH ur	nits)	Temper (°C Reading)	Spec Conduc (us/o Reading	ctivity :m)	Disso Oxyg (mg/ Reading	en L)	Redo Poten (mV Reading	tial ')	Turbi (NT Reading	U)	Pumping Rate	Depth to Water (ft below
		S		Change		Change		Change		Change		Change		Change	(ml/min)	TOC)
0817	Х		6.85	NA .	15.9	NA	22300	NA .	1.09	.NA	-125.8	NA NA	550	NA	220	5.35
0822	X		6.66	-0.19	15.6	-0.3	19880	-2420	1.08	-0.01	-127.5	-1.7	550	0	220	5.35
0827	Х		6.56	-0.10	15,7	0.1	16670	-3210	1.17	0.09	-122.2	5.3	271	-279	220	5.35
0832	X		6.54	-0.02	15.9	0.2	15710	-960	1.09	-0.08	-119.4	2.8	84.3	-186.7	220	5.35
0837	х		6.58	0.04	16.0	0.1	14710	-1000	0.99	-0.10	-118.9	0.5	28.4	-55.9	220	5.35
842	x		6.58	0.00	16.0	0.0	14050	-660	0.87	-0.12	-118.8	0.1	10.71	-17.69	220	5.35
0847	x		6.59	0.01	16.1	0.1	13360	-690	0.78	-0.09	-118.9	-0.1	8.81	-1.90	220	5.35
0852	x		6.59	0.00	16.1	0.0	13000	-360	0.62	-0.16	-119.7	-0.8	7.56	-1.25	220	5.35
0857	x		6.58	-0.01	16.1	0.0	12730	-270	0.59	-0.03	-120.4	-0.7	7.16	-0.40	220	5.35
0902	x		6.58	0.00	16.1	0.0	12700	-30	0.58	-0.01	-120.9	-0.5	7.09	-0.07	220	5.35
0907	х		6.59	0.01	16.1	0.0	12690	-10	0.55	-0.03	-121.2	-0.3	6.98	-0.11	220	5.35
0912		x	6.59	0.00	17.4	1.3	12600	-90	0.51	-0.04	-124.7	-3.5	6.69	-0.29	220	5.35
													:			
	\vdash															
Commen	ts:	<u>L_</u>	II		ON 081		PLE CLI	AR/NO	ODOR							
				SAMF	PLED @	0908										

													Sheet	1	of .	
	Si	te:	· · · · · · · · · · · · · · · · · · ·		dgewater				Clien	t / Site: _			GZA			
	Da	te:			6/25/2007				Field Pers	sonnel:		То	m Lesins	ki		
W	eath	er:			80°F Sun					Job#						
Monitorin	g We	II #: _		MW-4			Well Depth:	1	7.70	ft	Scre	ened/Op	en Interval:	NA		ft
Well	Permi	it#:	NA			Wel	l Diameter:		2	inches						
PID/FID R (ppm):	eadin		Background	d:		0.0			Pump Intak	e Depth:		8.5		ft below	тос	
			Beneath Ou	ıter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump Inst	allation:	3.6	5	ft below TC	С
			Beneath Inr	ner Cap:		0.9	Spec	ific.	Purge Dissol		Bl: Redo		np		I	Depth to
TIME	Purging	Sampling	pH (pH ur		Temper		Conduc (us/c	tivity	Oxyg (mg/	en L)	Poten (mV	tial ')	Turbi (NT	U)	Pumping Rate	Water (ft below
	2	Sa	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1002	х		6.74	NA.	18.0	NA.	5720	NA NA	0.92	NA NA	-287.7	NA	7.11	NA	300	3.79
1007	x		6.49	-0.25	17.8	-0.2	5340	-380	0.66	-0.26	-306.1	-18.4	4.98	-2.13	300	3.79
1012				-0.09	17.8	0.0	5160	-180	0.57	-0.09	-308.1	-2.0	3.54	-1.44	300	3.79
1017	017 X 6.3		6.35	-0.05	17.9	0.1	5010	-150	0.51	-0.06	-309.2	-1.1	3.35	-0.19	300	3.79
1022			-0.02	18.0	0.1	5000	-10	0.41	-0.10	-313.3	-4.1	3.20	-0.15	300	3.79	
<u>)</u>	x		6.34	0.01	18.1	0.1	5160	160	0.33	-0.08	-321.8	-8.5	3.15	-0.05	300	3.79
1032	x		6.34	0.00	18.2	0.1	5220	60	0.34	0.01	-323.8	-2.0	2.79	-0.36	300	3.79
1037	x	<u> </u>	6.34	0.00	18.2	0.0	5250	30	0.34	0.00	-324.8	-1.0	2.74	-0.05	300	3.79
1042	x		6.34	0.00	18.2	0.0	5270	20	0.34	0.00	-326.1	-1.3	2.68	-0.06	300	3.79
1047		х	6.32	-0.02	19.1	0.9	5330	60	0.41	0.07	-333.8	-7.7	2.54	-0.14	300	3.79
													,			
		T														
	+	T														
	+											,				
	\dagger	\vdash				 										
Comme	Comments:				ON 09: PLED @		IPLE CL	EAR/N	O ODOR	<u> </u>				•	"	

													Sneet		OI .	
	S	ite:			Edgewater				Clien	t / Site:		 	GZA			
	Da	ite:			6/25/2007				Field Per	sonnel:		To	om Lesins	ki		
W	eath	er:			80°F Sun					Job#		el , de la diga				
Monitoring	g We	II #: .		MW-52			Well Depth:	1:	3.45	ft	Scre	ened/Op	en Interval:	NA		ft
Weli F	erm	it #: .	NA	···		Wel	l Diameter:		2	inches						:
PID/FID Ro (ppm):		gs	Background			0.0			Pump Intak	e Depth:		9.0		ft below	тос	
			Beneath Ou	ter Cap:		0.0		. 1	Depth to Wa	ter Befor	e Pump Inst	allation:	3.8	9	ft below TC	С
			Beneath Inr	ner Cap:		4.9			Purge	Method	Bla	adder Pur	пр			
TIME	Purging	Sampling	pH (pH ur	nits)	Temper (°C)	Spec Conduc (us/c Reading	:tivity m)	Dissol Oxyg (mg/ Reading	en L)	Redo Poten (mV Reading	tiai ')	Turbic (NTI Reading	J)	Pumping Rate (ml/min)	Depth to Water (ft below
		Ø	Reading	Change		Change		Change		Change		Change		Change	<u> </u>	TOC)
1126	X		6.63	NA NA	15.7	NA .	5110	NA .	0.50	NA .	-336.9	NA .	187	. NA	290	3.83
1131	Х	_	6.60	-0.03	15.1	-0.6	5070	-40	0.41	-0.09	-343.9	-7.0	58.1	-128.90	290	3.83
1136	х		6.60	0.00	15.0	-0.1	5040	-30	0.35	-0.06	-346.5	-2.6	35.2	-22.90	290	3.83
1141	х		6.60	0.00	14.9	-0.1	4980	-60	0.32	-0.03	-347.8	-1.3	31.3	-3.90	290	3.83
1146	х		6.60	0.00	14.9	0.0	4920	-60	0.27	-0.05	-349.8	-2.0	22.3	-9.00	290	3.83
151	х					0.0	4880	-40	0.26	-0.01	-350.9	-1.1	18.3	-4.00	290	3.83
1156	x		6.61	0.00	14.9	0.0	4870	-10	0.26	0.00	-351.8	-0.9	19.9	1.60	290	3.83
1201	х		6.61	0.00	14.9	0.0	4850	-20	0.25	-0.01	-351.2	0.6	18.8	-1.10	290	3.83
1206		х	6.60	-0.01	15.4	0.5	4830	-20	0.24	-0.01	-352.4	-1.2	18.6	-0.20	290	3.83
		_														
		T								-						
Commen	Comments:						MPLE CL	EAR/N	IO ODOI	?				l,,	1	
				SAMF	PLED AT	1202										

													Sheet		of	1
	Si	te:			Edgewater				Clien	t / Site:			GZA			
	Da	te:_			6/25/2007		 .		Field Per	sonnel:		To	m Lesins	ki		
W	eath	er:			80°F Sun					Job#			<u> </u>			·
Monitorin	y We	i #: _		MW-36			Well Depth:	1.	4.82	ft	Scre	ened/Op	en Interval:	NA NA	·	ft
			NA			We	II Diameter:		2	inches						
PID/FID Ro (ppm):	adin		Background	d: .		0.0		•	Pump Intak	e Depth:	· · · · · · · · · · · · · · · · · · ·	9.0		ft below	тос	
			Beneath Ou	iter Cap:		0.0		ا .	Depth to Wa	ater Befor	e Pump Inst	tallation:	3.8	9	ft below TO	С
			Beneath Inr	ner Cap:		1.6	6				BI Redo		np		i	Do-th to
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Spec Conduc (us/c Reading	ctivity m)	Disso Oxyg (mg/ Reading	jen (L)	Poten (mV	tial ')	Turbi (NT	U) ¯	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
1258	X	Ť	6.20	NA NA	16.6	NA NA	20500	NA NA	1.82	NA NA	-339.2	NA.	286	NA	280	4.18
	303 X 6.34			0.14	16.5	-0.1	11380	-9120	0.99	-0.83		-6.1	41.4	-244.6		4.18
				16.8	0.3	8040	-3340	0.65	-0.34		-0.6	16.2	-25.2			
	313 X 6.52		0.10	16.8	0.0	7370	-670	0.43	-0.22			7.14	-9.06		4.25 4.29	
			0.02	16.9	0.1	7210	-160	0.38	-0.05			5.56	-1.58		4.31	
		\dashv		0.04	16.8	-0.1	7150	-60	0.31	-0.07		-3.2	3.64	-1.92		4.31
1328	X		6.61	0.03	16.9	0.1	7060	-90	0.28	-0.03	,	-1.0	3.45	-0.19		4.31
1333	X		6.61	0.00	16.9	0.0	7050	-10	0.28	0.00	-363.9	-0.4	3.51	0.06	280	4.31
1338		X	6.60	-0.01	17.5	0.6	7040	-10	0.27	-0.01	-365.1	-1.2	3.48	-0.03	280	4,31
	_															
	_															
							<u> </u>									
	_						 									
Commen	Comments:				ON 125 PLED @		IPLE CLI	EAR/NO	ODOR							

													Sheet	1	of	1
	Si	te:			dgewater				Clien	t / Site:			GZA			
	Da	te:_			6/26/2007				Field Pen	sonnel:		Ste	eve Schul	ze		
W	eath	er: _			78°F Sun					Job#						
Monitoring	We	1#:_		MW-33		١	Well Depth:	1:	3.40	ft	Scre	ened/Ope	en Interval:	NA		ft
Well P	ermi	t#:_	NA			Wel	l Diameter:		2	inches						
PID/FID Re (ppm):	adin		Background	i: .		0.0			Pump Intak	e Depth:		9.0		ft below	тос	
			Beneath Ou	ter Cap:	. <u></u>	0.0		. '	Depth to Wa	iter Befor	e Pump Insi	tallation:	3.8	3	ft below TC	ic
			Beneath Inr	ner Cap:		163				Method		adder Pun	np			Dordh 4a
TIME	Purging	Sampling	pH (pH un	1	Temper		Spec Conduc (us/c	tivity	Dissol Oxyg (mg/	en	Redo Poten (mV	tial	Turbio (NTI	-	Pumping Rate	Depth to Water (ft below
	2	San	Reading		Reading		Reading		Reading		Reading	•	Reading		(ml/min)	TOC)
0809	X	_	6.45	NA.	19.8	NA	4890	NA	1.66	NA	-88.1	NA	181	NA	300	3.88
0814	Х	_	6.58	0.13	19.4	-0.4	4620	-270	1.65	-0.01	-98.9	-10.8	49.1	-132	300	3.88
0819	х		6.64	0.06	19.5	0.1	4350	-270	1.58	-0.07	-113.8	-14.9	16.5	-32.6	300	3.88
0824	х		6.67	0.03	19.4	-0.1	4240	-110	1.35	-0.23	-123.8	-10.0	10.64	-5.86	300	3.88
0829	X		6.70 ·	0.03	19.5	0.1	4180	-60	1.39	0.04	-134.4	-10.6	6.04	-4.60	300	3.88
334	Х		6.73	0.03	19.4	-0.1	4150	-30	1.22	-0.17	-142.5	-8.1	7.04	1.00	300	3.88
0839	Х		6.74	0.01	19.4	0.0	4120	-30	1.16	-0.06	-149.2	-6.7	5.20	-1.84	300	3.88
0844	х		6.75	0.01	19.4	0.0	4110	-10	1.13	-0.03	-157.4	-8.2	4.76	-0.44	300	3.88
0849	Х		6.75	0.00	19.4	0.0	4130	20	1.14	0.01	-162.3	-4.9	5.34	0.58	300	3.88
0854	Х		6.77	0.02	19.4	0.0	4080	-50	1.13	-0.01	-174.1	-11.8	4.67	-0.67	300	3.88
059	х		6.77	0.00	19.4	0.0	4070	-10	1.11	-0.02	-180.3	-6.2	4.39	-0.28	300	3.88
0904	Х		6.77	0.00	19.4	0.0	4080	10	1.09	-0.02		-5.6	4.27	-0.12		3.88
0909	x		6.78	0.01	19.4	0.0	4080	0	1.03	-0.06		-4.0	4.02	-0.25		3.88
0914		Х		-0.01	19.4	0.0	4080	0	1.00	-0.03		-1.4	4.11	0.09		3.88
0914		┝	0.77	-0.01	13.4	0.0	1000	<u> </u>	1.00	0.00	101.0			0.00		0.00
<u> </u>		-														
		-														
	-															
	-	_		_		-										
	\vdash	-							<u> </u>							
Commen	l te:											<u></u>	<u></u>			
Commen	.		Pump o	n @ 08	307	Samp	le time: (910								

														Sneet		. of	1
						Edgewater			•	Clien	it / Site:			GZA			
		Da	te:_			6/26/2007				Field Per			Ed	Levendos	ky		
_	W	eath	er: _			80°F Sun			<u></u>		Job#						
M	onitoring) Wel	l #:_		MW-32		,	Well Depth:	1	5.29	ft	Scre	ened/Op	en Interval:	NA NA		ft
				NA			Wel	Il Diameter:		2	inches						
	D/FID Re pm):	adin	_	Background	d:		0.0		•	Pump intak	e Depth:		9.5		ft below	тос	
			ı	Beneath Ou	nter Cap:	 	0.0	· · · · · · · · · · · · · · · · · · ·	. '	Depth to Wε	ıter Befor	re Pump Inst	tallation:	4.04	4	ft below TO	С
L				Beneath Inn	er Cap:		0.0	Smaa	***		e Method		adder Pun	np		<u> </u>	2
	TIME	Purging	Sampling	pH (pH un Reading	nits)	Temper (°C) Reading)	Speci Conduc (us/c Reading	ctivity :m)	Dissol Oxyg (mg/ Reading	gen /L)	Redo Poten (mV Reading	ntial /)	Turbio (NTI Reading	υ)	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
 	2050		╣														
Γ	0950	X	1	6.77	NA OT	19.5	NA 2 O	9080	NA EOO	1.37	NA O 11	-187.5	NA OO E	100.8	NA 20 4	200	4.68
Г	0955	X	╢	6.50	0.03	22.5	3.0	8500	-580	1.48	0.11	-107.0	80.5	72.7	-28.1	200	4.68
Γ	1000					22.9	0.4	8100	-400	1.54	0.06	-115.5		50.5	-22.2	200	4.68
\vdash	1005	X		6.61	0.08	23.1	0.2	7240	-860	0.64	-0.90	-133.3	-17.8	68.8	18.3	200	4.68
L	1010				0.07	23.3	0.2	6680	-560	0.56	-0.08	-146.6	-13.3	53.0	-15.8	200	4.68
ļ	015	X	_	6.72	0.04	23.9	0.6	6370	-310	0.52	-0.04	-166.7	-20.1	58.5	5.5	200	4.68
L	1020	х		6.78	0.06	23.3	-0.6	6120	-250	0.56	0.04	-192.5	-25.8	67.0	8.5	200	4.68
	1025	х		6.86	0.08	23.2	-0.1	5800	-320	0.67	0.11	-238.5	-46.0	65.3	-1.7	200	4.68
	1030	х		6.89	0.03	23.3	0.1	5690	-110	0.73	0.06	-280.1	-41.6	66.3	1.0	200	4.68
	1035	х		6.69	-0.20	23.1	-0.2	6160	470	0.81	0.08	-278.1	2.0	66.0	-0.3	200	4.68
	1040	х		6.78	0.09	23.1	0.0	5940	-220	0.78	-0.03	-287.6	-9.5	62.3	-3.7	200	4.68
	1045	Х		6.86	0.08	23.2	0.1	5780	-160	0.88	0.10	-305.3	-17.7	65.2	2.9	200	4.68
	1050	Х		6.94	0.08	23.2	0.0	5620	-160	0.81	-0.07	-321.8	-16.5	52.8	-12.4	200	4.68
	1055	х		6.97	0.03	23.2	0.0	5580	-40	1.15	0.34	-330.9	-9.1	65.8	13.0	200	4.68
	1100	Х		6.98	0.01	23.3	0.1	5560	-20	1.17	0.02	-331.1	-0.2	66.1	0.3	200	4.68
	1105	Х		6.99	0.01	23.3	0.0	5590	30_	1.16	-0.01	-330.1	1.0	65.9	-0.2	200	4.68
	1110	х		6.98	-0.01	23.3	0.0	5560	-30	1.15	-0.01	-330.7	-0.6	66.0	0.1	200	4.68
	1115		х		0.01	23.3	0.0	5560	0	1.11	-0.04		-0.3	64.2	-1.8	200	4.68
	<u> </u>																-
<u> </u>			П														
C	omment	s:		_							L	<u></u>	<u></u>			<u> </u>	
ı				Pump of	տ (@ 0ն	<i>3</i> 46	Samp'	[le time: '	1111								

													Sheet	1	of	1
	S	ite:			Edgewater				Clien	t / Site:			GZA			
	Da	ıte: _			6/26/2007				Field Per	sonnel:		Ed	Levendos	ky		
w	eath	er:			85°F Sun					Job#						
Monitorin	g We	IJ#: -		MW-12			Well Depth:	1	9.56	ft	Scre	ened/Op	en Interval:	NA		ft
			NA			We	ll Diameter:		2	inches						
PID/FID Re (ppm):	eadin		Background	d:		0.0			Pump Intak	e Depth:		13.5		ft below	тос	
			Beneath Ou	iter Cap:		0.0			Depth to Wa	iter Befor	e Pump Ins	allation:	8.0	5	ft below TC	С
		3	Beneath Inc	ner Cap:		0.0	Spec	ific	Purge Disso		Bi Rede		mp			Depth to
TIME	Purging	Sampling	pH (pH un Reading	ilts)	Temper (°C Reading)	Conduc (us/c	tivity m)	Oxyg (mg/ Reading	jen L)	Poten (mV	tial ')	Turbi (NTI Reading	U) Š	Pumping Rate (ml/min)	Water (ft below TOC)
1150	X		7.22	NA NA	19.9	NA NA	1184	NA.	2.48	NA.	-140.5	NA NA	55.8	NA	190	8.05
1155	^ X		7.14	-0.08	17.1	-2.8	1136	-48	2.25	-0.23		-15.4	15.8	-40.0	190	8.05
	1200 X			0.02	16.7	-0.4	1126	-10	1.91	-0.34		-9.4	5.59	-10.21	190	8.05
	1205 X		7.16 7.17	0.01	16.5	-0.2	1119	-7	1.72	-0.19		-7.3	5.09	-0.50		8.05
	1205 X		7.18	0.01	16.4	-0.1	1114	-5	1.62	-0.10		-6.7	5.22	0.13	190	8.05
215	X		7.18	0.00	16.3	-0.1	1115	1	1.58	-0.04		-1.6	6.61	1.39	190	8.05
1220	X		7.19	0.01	16.4	0.1	1113	-2	1.31	-0.27		-3.7	6.84	0.23	190	8.05
1225	x		7.20	0.01	16.6	0.2	1114	1	1.13	-0.18		-6.9	5.12	-1.72	190	8.05
1230	х		7.21	0.01	16.5	-0.1	1109	-5	1.20	0.07	-200.5	-9.0	6.10	0.98	190	8.05
1235	х		7.20	-0.01	16.5	0.0	1108	-1	1.18	-0.02	-201.0	-0.5	5.83	-0.27	190	8.05
1240	Х		7.20	0.00	16.5	0.0	1107	-1	1.19	0.01	-201.5	-0.5	5.88	0.05	190	8.05
1245		Х	7.20	0.00	16.5	0.0	1107	0	1.13	-0.06	-202.0	-0.5	5,73	-0.15	190	8.05
Commen	ts:		Pump o	n @ 11	46	Samp	le time: 1	241								
1			,	<u> </u>		···-		-								

				-								····	Sneet		Of	
				Edgewater	•			Clien	t / Site:			GZA		_ .	Ì	
	Da	ite: .			6/26/2007				Field Per	sonnel:		Ed	Levendos	ky		:
W	eath	er:			85°F Sun					Job#		-				
Monitoring	g We	II #: _.		MW-64		•	Well Depth:	10	6.60	ft	Scre	ened/Op	en Interval:	NA		ft
			NA			Wel	l Diameter:		2	inches			<u></u>			
PID/FID Re (ppm):	eadin		Background	d: .		0.0			Pump intak	e Depth:		8.5	······································	ft below	тос	Ì
			Beneath Ou	iter Cap:		0.0			Depth to Wa	ter Befor	e Pump ins	allation:	3.50	<u> </u>	ft below TC	oc
			Beneath Inr	ner Cap:		0.0	O	16.		Method		adder Pur	np			Dordh 4a
TIME	Purging	Sampling	pH (pH un	its)	Temper (°C)	Spec Conduc (us/c	tivity m)	Dissol Oxyg (mg/	en L)	Redo Poten (mV	tial ')	Turbic (NTI Reading	J)	Pumping Rate	Depth to Water (ft below
		Ø	Reading	Change		Change	Reading	Change	Reading	Change	Reading	Change		Change	(ml/min)	TOC)
1327	Х		6.31	NA .	18.1	NA	2850	NA	1.37	NA .	-300.1	NA	106.4	NA	260	8.51
1332	37 X 6.36 0.0			-0.01	17.0	-1.1	2900	50	1.13	-0.24	-317.7	-17.6	63.8	-42.6	260	8.51
1337	37 X 6.36 0.06		0.06	16.3	-0.7	2900	0	1.54	0.41	-326.3	-8.6	52.9	-10.9	260	8.51	
1342	7 X 6.36 0.06 2 X 6.39 0.03		0.03	16.2	-0.1	2890	-10	0.95	-0.59	-330.4	-4.1	58.9	6.0	260	8.51	
1347	2 X 6.39 0.03 7 X 6.39 0.00		16.3	0.1	2880	-10	1.54	0.59	-333.9	-3.5	53.1	-5.8	260	8.51		
352	х	6.39 0.00 1		16.3	0.0	2880	0	1.51	-0.03	-335.9	-2.0	53.8	0.7	260	8.51	
1357	х		6.38	-0.01	16.4	0.1	2890	10	1.50	-0.01	-335.2	0.7	16.2	-37.6	260	8.51
1402	x		6.37	-0.01	16.4	0.0	2890	0	1.49	-0.01	-335.8	-0.6	16.8	0.6	260	8.51
1407	х		6.34	-0.03	16.2	-0.2	2880	-10	1.50	0.01	-337.0	-1.2	15.8	-1.0	260	8.51
1412		х	6.30	-0.04	16.1	-0.1	2860	-20	1.53	0.03	-333.3	3.7	15.1	-0.7	260	8.51
					ļ											
	T	T														
	T	T														
Commen	ts:	<u> </u>	<u> </u>				I	400	<u> </u>					1	V	
1			Pump o	n @ 13	524	Samp	le time: 1	408								

													Sheet		of	1
	S	ite:			Edgewater	•			Clien	t / Site:			GZA	-		
	Da	te:			6/26/2007				Field Per	sonnel:		To	m Lesins	ki		
W	eath	er:			80°F Sun					Job#						
Monitoring	g We	II #: .		MW-57		,	Well Depth:	1.	4.80	ft	Scre	ened/Op	en interval:	NA		ft
Well F	erm	it #:	NA			Wei	il Diameter:		2	inches						
PID/FID Re (ppm):	adin		Background	:		0.0			Pump Intak	e Depth:		11.5		ft below	тос	
			Beneath Ou	ter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump Inst	aliation:	6.3	3	ft below TC	С
			Beneath Inr	er Cap:		0.0				Method		adder Pur	пр			
TIME	Purging	Sampling	pH (pH un	its)	Temper (°C Reading)	Spec Conduc (us/c Reading	tivity m)	Dissol Oxyg (mg/ Reading	en L)	Redo Poten (mV	tial ')	Turbic (NTI Reading	ر(ل	Pumping Rate	Depth to Water (ft below
		S	Reading	Change			·	Change						Change	(mi/min)	TOC)
0810	X	\dashv	6.35	NA .	18.4	NA	2170	NA	1.36	NA .	-93,3	N/A	55.6	NA	250	6.38
0815	X	\dashv	6.44	0.09	17.6	-0.8	1947	-223	1.24	-0.12	-105.9	-12.6	28.3	-27.3	250	6.38
0820			0.09	17.4	-0.2	1895	-52	1.02	-0.22	-151.6	-45.7	11.7	-16.6	250	6.38	
0825	825 X 6.65		0.12	17.4	0.0	1925	30	0.74	-0.28	-190.4	-38.8	4.55	-7.15	250	6.38	
0830			0.09	17.2	-0.2	1955	30	0.64	-0.10	-220.5	-30.1	3.91	-0.64	250	6.38	
335	х		6.78	0.04	17.4	0.2	2010	55	0.53	-0.11	-250.8	-30.3	3.54	-0.37	250	6.38
0840	х		6.76	-0.02	17.3	-0.1	2060	50	0.35	-0.18	-267.3	-16.5	2.91	-0.63	250	6.38
0845	х		6.67	-0.09	17.4	0.1	2100	40	0.26	-0.09	-280.1	-12.8	2.55	-0.36	250	6.38
0850	х		6.56	-0.11	17.3	-0.1	2140	40	0.20	-0.06	-294.6	-14.5	1.74	-0.81	250	6.38
0855	х		6.50	-0.06	17.2	-0.1	2160	20	0.14	-0.06	-301.5	-6.9	1.14	-0.60	250	6.38
0900	x		6.49	-0.01	17.2	0.0	2180	20	0.14	0.00	-304.2	-2.7	1.11	-0.03	250	6.38
0905	x		6.48	-0.01	17.3	0.1	2220	40	0.13	-0.01	-304.0	0.2	1.12	0.01	250	6.38
0910	_	х	6.46	-0.02	17.7	0.4	2240	20	0.10	-0.03	-304.9	-0.9	1.10	-0.02	250	6.38
	\vdash	\vdash		ļ		 										
	\vdash	-			<u> </u>											
Comments:				PUMF	ON 080	5 SAM	PLE CLE	AR/NO	ODOR				İ		<u> </u>	
					PLED @											

***													Sheet	1	of	
	Site:				Edgewater	•			Clien	t / Site:			GZA			
	Da	ite: _			6/26/2007				Field Per	sonnel:		To	om Lesins	ki		
W	eath	er:			80°F Sun					Job#				- I		
Monitoring	; We	II #: _		MW-25		١	Well Depth:	1	3.12	ft	Scre	ened/Op	en Interval:	NA	·····	ft
			NA			Wel	i Diameter:		2	inches						
PID/FID Re (ppm):	adın		Background	d: .		0.0			Pump intak	e Depth:		10.0		ft below	тос	
			Beneath Ou	iter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump Ins	tallation:	4.8	8	ft below TC	С
		_	Beneath In	ner Cap:	·····	1.8	Spec	ific	Purge Disso	Method	Bi Rede	adder Pur	np		1	Depth to
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Conduct (us/c	:tivity m)	Oxyg (mg/	en 'L)	Poten (m\ Reading	itial /)	Turbi (NT) Reading	U) ¯	Pumping Rate (ml/min)	Water (ft below TOC)
1005	X		6.97	NA NA	17.8	NA .	5910	NA NA	0.50	NA.	-276.2		49.1	NA NA	220	4.93
	^ X		6.78	-0.19		-1.3	5730	-180	0.58	0.08	-292.8			-12.8		4.93
	015 X 6.71 020 X 6.71			-0.07	16.3	-0.2	5030	-700	0.21	-0.37				-22.2	220	4.93
	020 X 6.71		0.00	16.1	-0.2	4490	-540	0.15		-319.3	-8.0	8.51	-5.59	220	4.93	
	020 X 6.71 025 X 6.70		-0.01	16.2	0.1	4210	-280	0.12	-0.03		-5.7	5.49	-3.02	220	4.93	
)30				0.00	16.1	-0.1	4200	-10	0.11	-0.01	-332.1	-7.1	5.03	-0.46		4.93
1035	x		6.69	-0.01	16.2	0.1	3900	-300	0.11	0.00	-335.6	-3.5	3.85	-1.18	220	4.93
1040	X		6.69	0.00	16.2	0.0	3850	-50	0.11	0.00	-339.0	-3.4	3.98	0.13	220	4.93
1045	X		6.69	0.00	16.2	0.0	3800	-50	0.12	0.01			3.88	-0.10		4.93
1050	Ĥ	Х		0.00	17.1	0.9	3785	-15	0.10	-0.02		-2.2	3.79	-0.09		4.93
1030		Â	0.09	0.00	17.1	0.5	0700		0.10	0.02	0 7 7. 7	4	0.70	0.00		4.50
	-															
		-										<u> </u>				
		\vdash														
		-								_						
 										 				-		
	-	+														
	\vdash	\vdash			 					-		<u> </u>		-		
Commen	L ts:			PUMF	ON 100	O SAM	I IPLE CLI	L EAR/NO	L O ODOR	1	<u> </u>	L		<u> </u>		l
					PLED @											

													Sheet		- 01	
	Site:				Edgewater			,	Clien	t / Site:			GZA			
	Da	ite: .			6/26/2007				Field Per	sonnel:		To	om Lesins	ki		
W	eath	er:			80°F Sun					Job#					•	
Monitoring	g We	II #: .	· · · · ·	MW-16			Well Depth:	1	4.82	ft	Scre	ened/Op	en Interval:	NA NA		ft
			NA			Wei	l Diameter:		2	inches						
PID/FID Re (ppm):	adin		Background	d:		0.0			Pump Intak	e Depth:		8.5		ft below	тос	
			Beneath Ou	iter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump Inst	tallation:	3.6	2	ft below TC	С
			Beneath Inr	ner Cap:		0.0			Purge	Method	Bla	adder Pur	np			
TIME	Purging	Sampling	pH (pH ur	nits)	Temper (°C)	Spec Conduc (us/c	tivity m)	Dissol Oxyg (mg/	en L)	Redo Poten (mV	tial ')	Turbic (NTI	ມ) ່	Pumping Rate	Depth to Water (ft below
	ā	Š	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1122	X		6.86	NA	20.9	NA	4210	NA NA	0.88	NA.	-191.9	NA	19.5	NA	240	4.35
1127	х					0.0	4190	-20	0.79	-0.09	-192.5	-0.6	18.3	-1.2	240	4.43
1132	Х		6.84	-0.01	21.1	0.2	4220	30	0.66	-0.13	-194.5	-2.0	14.3	-4.0	200	4.48
1137	х		6.84	0.00	21.1	0.0	4210	-10	0.45	-0.21	-199.1	-4.6	8.35	-5.95	200	4.64
1142	х		6.83	-0.01	21.1	0.0	4230	20	0.42	-0.03	-200.0	-0.9	4.67	-3.68	200	4.70
147	Х		6.82	-0.01	21.1	0.0	4220	-10	0.42	0.00	-200.6	-0.6	3.39	-1.28	200	4.75
1152	Х		6.82	0.00	21.2	0.1	4240	20	0.32	-0.10	-205.1	-4.5	2.87	-0.52	200	4.82
1157	Х		6.82	0.00	21.3	0.1	4270	30	0.28	-0.04	-210.0	-4.9	2.79	-0.08	200	4.85
1202	X		6.81	-0.01	21.2	-0.1	4250	-20	0.28	0.00	-212.1	-2.1	2.80	0.01	200	4.88
1207	х		6.81	0.00	21.3	0.1	4280	30	0.26	-0.02	-214.8	-2.7	2.75	-0.05	200	4.92
1212		х	6.81	0.00	22.0	0.7	4210	-70	0.24	-0.02	-217.8	-3.0	2.69	-0.06	200	4.96
				<u> </u>												
ļ		_			-											
					,											
Commen	omments:				ON 111 PLED @		SAMPLI	CLEA	R/NO O	DOR						

								•					Sheet	1	of	1
	S	ite:			Edgewater	•		,	Clien	t / Site:			GZA			
	Da	rte:		·	6/26/2007				Field Per	sonnei:		To	m Lesins	ki		
W	eath	er:			80°F Sun		<u> </u>			Job#						
Monitoring	g We	II #: ₋		MW-46			Well Depth:	1	6.75	ft	Scre	ened/Op	en Interval:	NA NA		ft
			NA			Wei	ii Diameter:		2	inches						
PID/FID Re (ppm):	eacun		Backgroun	d: .		0.0		•	Pump Intak	e Depth:		13.0		ft below	тос	
			Beneath Ou	ıter Cap:				. '			e Pump inst			7	ft below TO	C
		m l	Beneath In:	ner Cap:		5.0	Spec	ific	Purge Disso		Bl		np			Depth to
TIME	Purging	Sampling	pH (pH ur	nits)	Temper (°C Reading)	Conduc (us/c	m)	Oxyg (mg/ Reading	L)	Poten (mV Reading	')	Turbic (NTI Reading	(ل	Pumping Rate (ml/min)	Water (ft below
4040		S	Reading				Reading 626		0.40				124		300	TOC)
1242	X		7.69	-0.18	15.1 14.4	-0.7	631	NA 5	0.40	-0.17	-157.8 -175.8	-18.0	101.5	-22.5	300	7.97 7.97
1247		X 7.44 -0			14.0	-0.4	636	5	0.18	-0.05		-8.1	61.0	-40.5	300	7.97
1252 1257	7.44			0.00	14.0	0.0	626	-10	0.15	-0.03		-10.0	27.8	-33.2	300	7.97
1302					13.7	-0.3	632	6	0.11	-0.04			20.2	-7.6	300	7.97
307	x				13.7	0.0	621	-11	0.09	-0.02		-10.4	9.85	-10.35	300	7.97
1312	X	Н	7.55	0.03	13.7	0.0	628	7	0.07	-0.02		-5.8	7.21	-2.64	300	7.97
1317	X		7.50	-0.05	13.7	0.0	627	-1	0.07	0.00	-224.9	-5.3	4.94	-2.27	300	7.97
1322	X		7.50	0.00	13.8	0.1	622	-5	0.07	0.00	-226.3	-1.4	4.89	-0.05		7.97
1327	X		7.50	0.00	13.8	0.0	614	-8	0.07	0.00	-229.4	-3.1	4.66	-0.23		7.97
1332		x		0.00		0.8	611	-3	0.06		-233.0	-3.6	4.59	-0.07		7.97
1002			7.00	0.00												
				<u> </u>									, .			
									,							
													,			
	T	T														
	T	T														
	T	T														
Commen	Comments:						PLE CLI	AR N	ODOR			•		ł		
ł	Comments:				PLED@ 1 DUCT FO		АТ ВОТТ	OM OF	WELL (0.1 FT	.)					

													Slieet		OI .	
				1	Edgewater	-			Clien	t / Site:			GZA			
	Da	ite:			6/27/2007			•	Field Per	sonnel:		St	eve Schul	ze		
W	eath	er:		· · · · · · · · · · · · · · · · · · ·	70oF Sun				***	Job#						
Monitorin	g We	11 #:		MW-54		. 1	Well Depth:	1	6.42	ft	Scre	eened/Op	en interval:		NA	ft
Well F	erm	it #:		NA		Wel	ll Diameter:		2	inches						
PID/FID Re (ppm):	eadin		Background	d:		0.0			Pump Intak	e Depth:		8.0		ft below	тос	
:			Beneath Ou	ıter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump ins	taliation:	2.5	6	ft below TC	С
			Beneath In	ner Cap:		47.8			Purge	Method	ВІ	adder Pur	np			
TIME	Purging	Sampling	pH (pH ur	nits)	Temper (°C Reading)	Spec Conduc (us/c Reading	tivity m)	Dissol Oxyg (mg/ Reading	en 'L)	Redo Poten (mV Reading	rtial /)	Turbic (NTI Reading	J)	Pumping Rate	Depth to Water (ft below
		Ø	Reading	Change		Change	_	Change		Change	_	Change		Change	(mi/min)	TOC)
0808	Х		6.96	NA NA	20.1	NA	930	NA NA	2.73	NA	-158.7	NA	296	NA	250	2.58
0813	8 X 6.92 0.02				18.2	-1.9	935	5	1.44	-1.29	-186.1	-27.4	234	-62	250	2.58
0818					18.0	-0.2	939	4	1.15	-0.29	-198.9	-12.8	108.6	-125.4	250	2.58
0823	X 6.91 -0.01			17.7	-0.3	945	6	1.14	-0.01	-209.7	-10.8	64.9	-43.7	250	2.58	
0828	X 6.93 0.02			17.5	-0.2	953	8	1.39	0.25	-214.1	-4.4	35.5	-29.4	250	2.58	
333	х			17.6	0.1	956	3	1.26	-0.13	-219.8	-5.7	32.9	-2.6	250	2.58	
0838	х		6.94	-0.01	17.8	0.2	961	5	1.31	0.05	-224.8	-5.0	26.8	-6.1	250	2.58
0843	Х		6.95	0.01	17.5	-0.3	964	3	1.16	-0.15	-230.5	-5.7	16.5	-10.3	250	2.58
0848	Х		6.95	0.00	17.5	0.0	972	8	1.07	-0.09	-237.4	-6.9	13.2	-3.3	250	2.58
0853	Х		6.94	-0.01	17.6	0.1	975	3	1.00	-0.07	-243.2	-5.8	11.4	-1.8	250	2.58
0858	Х		6.95	0.01	17.7	0.1	979	4	0.98	-0.02	-246.0	-2.8	9.05	-2.35	250	2.58
0903	Х		6.95	0.00	17.8	0.1	981	2	0.99	0.01	-250.1	-4.1	9.58	0.53	250	2.58
0908	X		6.93	-0.02	17.7	-0.1	986	5	0.91	-0.08	-255.4	-5.3	9.23	-0.35	250	2.58
0913	L.	x	6.91	-0.02	17.9	0.2	989	3	0.90	-0.01	-260.3	-4.9	9.02	-0.21	250	2.58
							-									
Comment	s:		Pump o	n @ 08	106	Sampl	e time: 0	909								

													Sheet	1	of .	11
	Si	te:		E	dgewater	•			Clien	t / Site:			GZA			
	Da	te:_		İ	6/27/2007				Field Pers	sonnel:		Ste	eve Schulz	ze		
w	eath	er:		1	85oF Sun					Job#						
Monitoring	y Wel	l #: _		MW-62			Well Depth:	1	5.47	ft	Scre	ened/Op	en Interval:		NA	ft
Well F	Permi	t#:_		NA		Wel	l Diameter:		2	inches						
PID/FID Re (ppm):	adin		Background	d: _		0.0	· · · · · · · · · · · · · · · · · · ·		Pump Intak	e Depth:		8.5	-	ft below	тос	ļ
			Beneath Ou	iter Cap:		0.0			Depth to Wa	ter Befor	e Pump Inst	tallation:	3.4	3	ft below TC	ж
4		_	Beneath Inr	ner Cap:		231.0	0	· ·			Bl		np		<u>r</u> .	Depth to
TIME	Purging	Sampling	pH (pH ur	its)	Temper (°C)	Speci Conduc (us/c	tivity m)	Dissol Oxyg (mg/	en L)	Redo Poten (mV	tial ')	Turbic (NTI	J) Č	Pumping Rate	Water (ft below
	ā.	تّ	Reading	Change		Change	Reading	Change	Reading	Change		Change		Cnange	(ml/min)	TOC)
0939	X	\dashv	6.96	NA NA	24.7	NA .	3610	NA	3.18	NA	-102.8	NA NA	199	NA .	290	3.48
0944	X 6.95 -0.03			0.02	22.0	-2.7	3680	70	1.88	-1.30	-119.8	-17.0	114	-85	290	3.48
0949				-0.03	20.7	-1.3	3630	-50	1.15	-0.73	-130.9	-11.1	100.6	-13.4	290	3.48
0954	4 X 6.95 0.00			0.00	20.9	0.2	3590	-40	0.90	-0.25	-145.1	-14.2	38.2	-62.4	290	3.48
0959	9 X 6.96 0.01			0.01	20.5	-0.4	3580	-10	0.94	0.04	-154.9	-9.8	28.5	-9.7	290	3.48
004	х		6.98	0.02	20.9	0.4	3630	50	0.94	0.00	-155.6	-0.7	21.0	-7.5	290	3.48
1009	х		6.99	0.01	21.3	0.4	3640	10	0.99	0.05	-155.5	0.1	15.0	-6.0	290	3.48
1014	х		7.00	0.01	22.1	0.8	3650	10	0.99	0.00	-160,3	-4.8	12.7	-2.3	290	3.48
1019	х		7.01_	0.01	22.2	0.1	3640	-10	0.98	-0.01	-165.6	-5.3	10.96	-1.74	290	3.48
1024	x		7.01	0.00	22.2	0.0	3630	-10	1.00	0.02	-168.7	-3.1	6,98	-3.98	290	3.48
1029	x		7.01	0,00	22.2	0.0	3620	-10	1.02	0.02	-172.2	-3.5	6.47	-0.51	290	3.48
1034	х		7.01	0.00	22.3	0.1	3610	-10	1.01	-0.01	-175.3	-3.1	6.38	-0.09	290	3.48
1039		х	7.00	-0.01	22.3	0.0	3600	-10	0.99	-0.02	-174.2	1.1	6.58	0.20	290	3.48
							† !									
														į		
		T														
	T	T		 												
Commer	ts:	1				<u>. </u>	1= 4!== : :	1005	 	L						
Į.			Pump o	n @ 09	<i>1</i> 38	Samp	le time: 1	いろう								

							······						Sneet		Of .	
	Si	te:_		Ę	Edgewater	·			Clien	t / Site:		·	GZA			
	Da	te:_			6/27/2007				Field Pen	sonnel:		St	eve Schul	ze		
W	eath	er:			85oF Sun				· · · · · · · · · · · · · · · · · · ·	Job#						
Monitoring	g We	ii #:_		MW-39s		,	Well Depth:	10	6.59	ft	Scre	eened/Op	en Interval:		NA	ft
Well F				NA		Wel	l Diameter:		2	inches						
PID/FID Re (ppm):	adin		Background	t: .		0.0			Pump Intak	e Depth:		10.5		ft below	тос	
			Beneath Ou	ter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump Ins	tallation:	5.4	9	ft below TC	iC
		-	Beneath Inr	er Cap:		0.0	Spec	ffe.	Purge Dissol		Bl Rede		np	-		Depth to
TIME	Purging	Sampling	pH (pH un Reading	its)	Temper (°C Reading)	Conduction (us/c	tivity m)	Oxyg (mg/ Reading	en L)	Poten (mV Reading	tial ')	Turbic (NTI Reading	U) ¯	Pumping Rate (ml/min)	Water (ft below TOC)
4445		\dashv														
1145	X	\dashv	7.58	NA O	24.9	NA C	966	NA COE	2.55	NA OC	-120.8		755	NA Od 4	310	5.50
1150	55 X 7.48 0.06				20.0	-4.9	731	-235	2.61	0.06			441	-314	310	5.50
1155	55 X 7.48 0.0 00 X 7.52 0.0			0.06	19.4	-0.6	606	-125	2.12	-0.49			132	-309	310	5.50
1200	00 X 7.52 0.0		0.04	19.3	-0.1	568	-38	2.01	-0.11			44.4	-87.6	310	5.50	
1205	X 7.52 0.00		0.00	19.2	-0.1	555	-13	1.61	-0.40	-203.4	-11.2	36.1	-8.3	310	5.50	
210	Х				19.1	-0.1	554	-1	1.62	0.01	-208.9	-5.5	17.4	-18.7	310	5,50
1215	Х		7.52	0.00	19.2	0.1	545	-9	1.38	-0.24	-213.3	-4.4	13.3	-4.1	310	5.50
1220	Х		7.53	0.01	19.2	0.0	541	-4	1.21	-0.17	-220.8	-7.5	9.22	-4.08	310	5.50
1225	X		7.53	0.00	19.0	-0.2	540	-1	1.19	-0.02	-227.4	-6.6	7.96	-1.26	310	5.50
1230	х		7.54	0.01	19.0	0.0	537	-3	1.03	-0.16	-234.4	-7.0	5.23	-2.73	310	5.50
1235	x		7.54	0.00	19.0	0.0	539	2	0.91	-0.12	-239.6	-5.2	3.75	-1.48	310	5.50
1240	x		7.54	0.00	19.0	0.0	536	-3	0.86	-0.05	-245.4	-5.8	3.30	-0.45	310	5.50
1245	X		7.54	0.00	19.0	0.0	537	1	0.81	-0.05	-249.3	-3.9	3.27	-0.03	310	5.50
1250	Х		7.53	-0.01	18.9	-0.1	536	-1	0.79	-0.02	-252.9	-3.6	3.11	-0.16	310	5.50
1255		Х	7.49	-0.04	18.9	0.0	538	2	0.89	0.10	-258.3	-5.4	2.99	-0.12	310	5.50
	\vdash	Г														
Commen	ts:	<u> </u>	<u> </u>							<u> </u>				l	1	
I			Pump o	n @ 11	43	Samp	le time: 1	251								

													Sheet	1	of	1
	Site: Edgewater Date: 6/27/2007								Clien	t / Site:			GZA			
	Da	ite:			6/27/2007				Field Per	sonnel:		St	eve Schul	ze		
w	eath	er:			92°F Sun					Job#						
Monitoring	g We	II #: _.		MW-63		,	Well Depth:	1	0.73	ft	Scre	ened/Op	en Interval:		NA	ft
Weli F	erm	it#:	· · · · · · · · · · · · · · · · · · ·	NA		Wel	l Diameter:		2	inches						
PID/FID Re (ppm):	adin	•	Background	d: _		0.0			Pump Intak	e Depth:		9.0		ft below	тос	
			Beneath Ou	iter Cap:		0.0		ı	Depth to Wa	iter Befor	e Pump ins	tallation:	3.60	0	ft below TC	С
			Beneath Inr	ner Cap:		0.0		-2-			Bla		mp			
TIME	Purging	Sampling	pH (pH un Reading	nits)	Temper (°C Reading)	Speci Conduc (us/c Reading	tivity m)	Disso Oxyg (mg/ Reading	en L)	Rede Poten (m\ Reading	tial ')	Turbic (NTI Reading	J) ີ	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
4000		٣									,					
1322	X		7.28	NA OO	24.0	NA_	405	NA .	2.81	NA OC	-114.6	NA .	94.6	NA 75 O	350	3.60
1327	X		6.20 -1.08 17.9 6.20 0.00 16.7 6.25 0.05 16.7			-6.1	409	4	0.75	-2.06		5.4	18.7	-75.9		3.60
1332	X	6.25 0.05 16			16.7	-1.2	409	0	0.63	-0.12	-	-10.5		-5.7	350	3.60
1337	X	6.25 0.05 16			16.7	0.0	409	0	0.61	-0.02	-131.6	-11.9	12.1	-0.9	350	3.60
1342	Х		6.26 0.01 16.			0.0	408	-1	0.57	-0.04	-137.8	-6.2	6.42	-5.68	350	3.60
347	х		6.26 0.01 16.7 6.25 -0.01 16.4			-0.3	407	-1	0.55	-0.02	-142.0	-4.2	3,50	-2.92	350	3.60
1352	х		6.23	-0.02	16.5	0.1	408	1	0.51	-0.04	-145.7	-3.7	2.05	-1.45	350	3.60
1357	х		6.22	-0.01	16.5	0.0	408	0	0.51	0.00	-149.2	-3.5	2.07	0.02	350	3.60
1402	x		6.22	0.00	16.5	0.0	408	0	0.52	0.01	-153.3	-4.1	1.99	-0.08	350	3.60
1407		Х	6.22	0.00	16.7	0.2	408	0	0.51	-0.01	-160.8	-7.5	2.03	0.04	350	3.60
	Г					-										
		_														
	 	\vdash			<u> </u>											
	╁	-														
	\vdash	-		 												
	_	_		 												
	igspace	-	ļ													
		<u> </u>														
Commen							le time: 1	403								

	Site:												Sheet	1	of	
	Si	te:			Edgewater	•			Clien	t / Site:			GZA			
					6/27/2007				Field Per	sonnel:		To	m Lesins	ki		
w	eath	er:			92°F Sun		<u>.</u> .			Job#						
						1	Well Depth:	1	4.95	ft	Scre	ened/Op	en Interval:		NA	ft
Weil I	ermi	it #:		NA		We	Il Diameter:		2	inches						
PID/FID Ro (ppm):	eadin		Background	d:		0.0			Pump Intak	e Depth:		8.0		ft below	тос	
			Beneath Ou	iter Cap:		0.0				,	e Pump Ins			9	ft below TC	ж
			Beneath In	ner Cap:		57.8			Purge	e Method	Bla	ddder Pu	mp			
TIME	ing	Sampling	рН		Temper		Speci Conduc	tivity	Dissol Oxyg	en	Rede Poten	tial	Turbic	-	Pumping	Depth to Water
	Purging	Sam	(pH ur Reading		(°C Reading		(us/c Reading		(mg/ Reading		(m\ Reading		(NTI Reading		Rate (ml/min)	(ft below TOC)
0810	х		6.74	NA	20.8	NA	727	NA	1.28	NA NA	-14.5	NA	111	NA	260	2.85
0815	х		6.71 -0.03 19.5 6.92 0.21 18.6			-1.3	774	47	0.90	-0.38	-86.2	-71.7	72.3	-38.7	260	2.85
0820	x		6.92 0.21 18			-0.9	827	53	0.21	-0.69	-193.6	-107.4	29.6	-42.7	260	2.85
0825	х		7.04	0.12	18.5	-0.1	835	8	0.17	-0.04	-237.9	-44.3	24.6	-5.0	260	2.85
0830	х					-0.1	844	9	0.16	-0.01	-259.8	-21.9	17.0	-7.6	260	2.85
835	х					0.0	852	8	0.14	-0.02	-273.1	-13.3	13.8	-3.2	260	2.85
0840	х		7.18	0.03	18.3	-0.1	860	8	0.14	0.00	-282.9	-9.8	10.79	-3.01	260	2.85
0845	х		7.19	0.01	18.3	0.0	863	3	0.13	-0.01	-290.0	-7.1	9.09	-1.70	260	2.85
0850	x		7.18	-0.01	18.3	0.0	864	1	0.12	-0.01	-291.1	-1.1	9.06	-0.03	260	2.85
0855	X		7.18	0.00	18.3	0.0	866	2	0.12	0.00	-292.8	-1.7	8.54	-0.52	260	2.85
0900		х	7.16	-0.02	19.0	0.7	869	3	0.10	-0.02	-299.0	-6.2	8.49	-0.05	260	2.85
									•							
	T															
	\dagger															
	\vdash	\vdash		<u> </u>												
Commen	Comments:				ON 080	5 SAM	I IPLE CLI	I EAR/N	DODOR			l		<u> </u>	1	
1	omments:			SAME	PLED @	0856										

						· · · · · ·							Sheet		Of .	
	Si	te:			Edgewater	•			Clien	t / Site:	· · · · · · · · · · · · · · · · · · ·		GZA			
	Da	te:			6/27/2007				Field Per	sonnel:		To	m Lesins	ki		
W	eath	er:			92°F Sun			, 	-	Job#						
Monitorin	g We	II #: .		MW-23			Well Depth:	1	5.07	ft	Scre	ened/Op	en Interval:			ft
Well I	Permi	it#:	· · · · · · · · · · · · · · · · · · ·			Wel	l Diameter:		2	inches						
PID/FID R (ppm):	eadin		Background	d:		0.0		•	Pump Intak	e Depth:		7.5		ft below	тос	
			Beneath Ou	ter Cap:		0.0		. 1	Depth to Wa	ter Befor	e Pump Insi	tallation:	2.56	6	ft below TC	С
			Beneath Inr	er Cap:		0.0				Method			mp			
TIME	Purging	Sampling	pH (pH un	its)	Temper (°C Reading)	Spec Conduct (us/c	tivity m)	Dissol Oxyg (mg/ Reading	en L)	Redo Poten (mV Reading	tial)	Turbic (NTI Reading	J) (U	Pumping Rate	Depth to Water (ft below
		တ	Reading	Change	Reading	Change		Change		Criange		Change		Change	(ml/min)	TOC)
0940	X	-	7.25	NA	19.9	NA.	1157	NA .	0.62	NA	-117.5	NA.	130	NA NA	200	2.60
0945	Х	_	7.10	-0.15	18.4	-1.5	1154	-3	0.40	-0.22	-138.3	-20.8	37.9	-92.1	200	2.60
0950	Х		7.05	-0.05	18.3	-0.1	1149	-5	0.32	-0.08	-144.8	-6.5	24.1	-13.8	200	2.60
0955	5 X 7.02			-0.03	18.4	0.1	1152	3	0.26	-0.06	-145.9	-1.1	16.3	-7.8	200	2.60
1000	X 6.98 -4			-0.04	18.5	0.1	1150	-2	0.24	-0.02	-150.1	-4.2	8.20	-8.10	200	2.60
005				0.00	18.6	0.1	1149	-1	0.23	-0.01	-151.0	-0.9	5.48	-2.72	200	2.60
1010	х		6.96	-0.02	18.5	-0.1	1147	-2	0.22	-0.01	-152.5	-1.5	3.62	-1.86	200	2.60
1015	x		6.96	0.00	18.5	0.0	1140	-7	0.22	0.00	-152.9	-0.4	3.45	-0.17	200	2.60
1020	X		6.95	-0.01	18.5	0.0	1145	5	0.21	-0.01	-152.6	0.3	3.55	0.10	200	2.60
1025		Х	6.96	0.01	19.7	1.2	1149	4	0.20	-0.01	-153.0	-0.4	3.26	-0.29	200	2.60
		<u> </u>										1	·			
	-															
		\vdash														
	\vdash															
	-															
ļ	-	-														
!	-	\vdash														
	┼	\vdash											i			
	_			DURAL	ON OOS	SE CAM	PLE CLI	ΔD/N/		NO IN	NER CA	D IN W	'EII		•	
Commen	ts:			SAMP	PLED @	1021				140 114						
1				FB@0)930/DUI	P OF M	100-23									

													Sneet	1	OT	
	S	ite:			Edgewater	·			Clien	t / Site:			GZA			. 1
	Da	ite:			6/27/2007		· · · · · · · · · · · · · · · · · · ·		Field Pers	sonnel:		To	om Lesins	ki		,
W	eath	er:			92°F Sun				· <u>-</u>	Job#						
Monitorin	g We	II #: _.		MW-41			Well Depth:	1	6.76	ft	Scre	eened/Op	en Interval:		NA	ft
				NA		Wel	l Diameter:		2	inches		····	,- ,. 			
PID/FID Ro (ppm):	eadin		Background	d: .		0.0			Pump Intak	e Depth:		8.5	-	ft below	тос	
			Beneath Ou	iter Cap:		0.0			Depth to Wa	iter Befor	e Pump Inst	tallation:	3.5	3	ft below TO	ж
			Beneath Inc	ner Cap:		0.0	Spec	i Go	Purge Dissol		Bla		mp		ir .	Doreth 4a
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C)	Conduction (us/c	tivity m)	Oxyg (mg/	en L)	Poten (mV	tial ')	Turbii (NTI Reading	J)	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
1326	Х	<u>"</u>	6.66		15.3		437	NA NA	0.83	NA NA	-145.9		18.7	NA NA	380	3.55
1331	^		6.77	0.11	14.3	-1.0	440	3	0.45	-0.38				-7.1	380	3.55
1336	X		6.80	0.03	14.3	0.0	444	4	0.25	-0.20				-2.49	380	3.55
1341	Х		6.86	0.06	14.2	-0.1	451	7	0.14	-0.11	-229.6	-17.8	5.36	-3.75	380	3.55
1346	х		6.73	-0.13	14.0	-0.2	452	1	0.12	-0.02	-230.7	-1.1	6.42	1.06	380	3.55
351	Х		6.73 -0.13 14.0 6.74 0.01 14.0			0.0	454	2	0.10	-0.02	-231.0	-0.3	3.25	-3.17	380	3.55
1356	Х		6.91	0.17	14.0	0.0	460	6	0.10	0.00	-233.1	-2.1	3.16	-0.09	380	3.55
1401	х		6.94	0.03	14.0	0.0	461	1	0.09	-0.01	-239.6	-6.5	3.22	0.06	380	3.55
1406	х		6.96	0.02	14.0	0.0	464	3	0.09	0.00	-240.5	-0.9	3.18	-0.04	380	3.55
1411		Х	7.00	0.04	15.2	1.2	466	2	0.11	0.02	-242.8	-2.3	3.20	0.02	380	3.55
												<u> </u>				
		_														
		L														
		_														
<u> </u>		_														
	-	_														
	<u> </u>	_														
	_															
Commen	Comments:			PUMF	ON 132	l 1 SAM	PLE CLE	I EAR/NO	O ODOR							
]					PLED @				-							

													Sneet	1	OT	<u> </u>
	S	ite:		i	Edgewate	·			Clien	t / Site:			GZA			
	Da	ite:			6/28/2007			ı	Field Pers	sonnel:		St	eve Schul	ze		
W	eath	er:			85°F Sun					Job#		·		· · · · · · · · · · · · · · · · · · ·		
Monitorin	g We	O#:		MW-51			Well Depth:	1	2.22	ft	Scre	ened/Op	en Interval:		NA	ft
				NA		Wel	l Diameter:		2	inches						
PID/FID Ro (ppm):	eadin	gs	Background	d:		0.0			Pump Intak	e Depth:		8.5		ft below	тос	
			Beneath Ou	ıter Cap:		0.0		. 1	Depth to Wa	ter Befor	e Pump Ins	tallation:	3.4	6	ft below TC	С
			Beneath Inr	ner Cap:		0.0					ВІ		np			
TIME	Purging	Sampling	pH (pH un Reading	nits)	Temper (°C Reading)	Spec Conduc (us/c Reading	tivity m)	Dissol Oxyg (mg/ Reading	en L)	Redo Poten (mV Reading	tial ')	Turbic (NTI Reading	J)	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
2224		S														
0804	Х		6.59	NA .	21.8	NA .	2850	NA .	1.78	NA	-133.2	NA .	2088	NA	385	3.44
0809	X		6.60	0.01	20.6	-1.2	2690	-160	0.25	-1.53			1586	-502	385	3.46
0814	Х		6.51	-0.09	20.9	0.3	2330	-360	0.23	-0.02	-169.5	-33.3	199	-1387	385	3.46
0819	х		6.54	0.03	20.9	0.0	2350	20	0.22	-0.01	-216.9	-47.4	62.2	-136.8	385	3.46
0824	Х		6.59 0.05 20.8		-0.1	2350	0	0.25	0,03	-248.7	-31.8	31.6	-30.6	385	3.46	
329	х				-0.1	2330	-20	0.25	0.00	-272.0	-23.3	17.7	-13.9	385	3.46	
0834	х		6.64	0.02	20.6	-0.1	2310	-20	0.36	0.11	-282.0	-10.0	10.27	-7.43	385	3.46
0839	X		6.66	0.02	20.6	0.0	2320	10	0.35	-0.01	-288.4	-6.4	6.59	-3.68	385	3.46
0844	х		6.67	0.01	20.7	0.1	2320	0	0.33	-0.02	-287.3	1.1	6.19	-0.40	385	3.46
0849	х		6.68	0.01	20.7	0.0	2320	0	0.34	0.01	-287.1	0.2	6.03	-0.16	385	3.46
0854		Х	6.69	0.01	21.0	0.3	2330	10	0.36	0.02	-287.0	0.1	5.87	-0.16	385	3.46
		T														
		\vdash														
	\vdash	\vdash							:							
Commen	ts:		<u> </u>	<u>i</u>	<u></u>	<u> </u>	l	<u> </u>	 ,,					<u> </u>	L	
			Pump o	n @ 08	302	Samp	le time: 0	850								

			-										Sheet	1_	of	1
	Si	te:		E	dgewater				Clier	t / Site:			GZA			
	Da	te:			6/28/2007				Field Per	sonnel:		St	eve Schul	ze	······································	
w	eath	er:			88°F Sun					Job#						
Monitorin	g We	U#:		MW-20		. ,	Well Depth:	1	6.65	ft	Scr	ened/Op	en Interval:		NA	ft
Well F	erm	it#:		NA		Wel	I Diameter:		2	inches						
PID/FID Ro (ppm):	adin		Background	d:		0.0		,	Pump Intak	e Depth:		7.0		ft below	тос	
			Beneath Ou	iter Cap:		0.0	- · · · · · · · · · · · · · · · · · · ·		Depth to Wa	nter Befor	e Pump Ins	allation:	2.1	7	ft below TO	С
			Beneath Inr	ner Cap: .		0.0					Ві		пр			
TIME	Purging	Sampling	pH (pH ur Reading	its)	Temper (°C Reading)	Speci Conduct (us/c Reading	tivity m)	Disso Oxyg (mg, Reading	jen L)	Redo Poten (mV Reading	tial)	Turbi (NT) Reading	υ) ်	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
		<u>~</u>		Onange												
0943	948 X 6.51 -0.19			NA .	23.4	NA .	1779	NA	2.00	NA	-234.8	NA .	357	NA	220	2.18
0948	953 X 6.46 -0.09				20.4	-3.0	1852	73	0.83	-1.17	-246.5		151	-206	220	2.18
0953	953 X 6.46 -0.0 958 X 6.34 -0.1			-0.05	20.7	0.3	1858	6	0.88	0.05	-267.9	-21.4	63.0	-88.0	220	2.18
0958	58 X 6.34 -0.13			-0.12	22.0	1.3	1858	0	1.19	0.31	-269.3	-1.4	72.3	9.3	220	2.18
1003	03 X 6.25 -0.09		-0.09	21.4	-0.6	1851	-7	1.96	0.77	-264.3	5.0	66.1	-6.2	220	2.18	
800	х			20.9	-0.5	1885	34	1.95	-0.01	-276.6	-12.3	61.9	-4.2	220	2.18	
1013	х		6.37	0.10	20.8	-0.1	1905	20	1.97	0.02	-274.6	2.0	48.1	-13.8	220	2.18
1018	х		6.50	0.13	20.4	-0.4	1944	39	1.80	-0.17	-286.8	-12.2	30.9	-17.2	220	2.18
1023	х		6.46	-0.04	20.8	0.4	1939	-5	1.69	-0.11	-287.8	-1.0	25.8	-5.1	220	2.18
1028	х		6.43	-0.03	21.8	1.0	1948	9	1.79	0.10	-285.8	2.0	29.4	3.6	220	2.18
1033	Х		6.53	0.10	21.0	-0.8	1967	19	1.71	-0.08	-296.9	-11.1	21.8	-7.6	220	2.18
1038	х		6.49	-0.04	19.9	-1.1	1988	21	1.73	0.02	-297.3	-0.4	19.3	-2.5	220	2.18
1043	х		6.50	0.01	19.8	-0.1	1991	3	1.75	0.02	-298.2	-0.9	16.8	-2.5	220	2.18
1048	х		6.46	-0.04	19.9	0.1	1989	-2	1.76	0.01	-298.5	-0.3	16.4	-0.4	220	2.18
1053	x		6.41	-0.05	20.1	0.2	1987	-2	1.71	-0.05	-294.6	3.9	16.0	-0.4	220	2.18
1058		Х	6.40	-0.01	20.9	0.8	1980	-7	1.65	-0.06	-291.1	3.5	15.8	-0.2	220	2.18
	\vdash	\vdash														
<u> </u>	\vdash	_							<u>. </u>							
Commen	L s:	<u> </u>	<u></u>			<u> </u>	L			l						
1			Pump o	n @ 09	39	Samp	le time: 1	054								

										·			Sheet	1	of	
	S	ite:			Edgewater		····· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··		Clien	it / Site:	·		GZA			
	Da	ate:			6/28/2007			•	Field Per	sonnel:		St	eve Schul	ze		
W	eath	er:			89°F Sun					Job#	 					
Monitoring	g We	ll #:		MW-55		. 1	Well Depth:	1:	3.09	ft	Scre	eened/Op	en interval:		NA	ft
Well i				NA		Wel	l Diameter:		2	inches						
PID/FID Re (ppm):	eadin	igs	Background	d:		0.0			Pump Intak	e Depth:		8.5		ft below	тос	
			Beneath Ou	iter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump Ins	tallation:	3.0	В	ft below TC	oc l
			Beneath Inr	ner Cap:		0.0				Method		adder Pur	np			
TIME	Purging	Sampling	pH (pH un	nits)	Temper (°C Reading		Spec Conduct (us/c Reading	tivity m)	Dissol Oxyg (mg/	jen 'L)	Redo Poten (mV Reading	tial	Turbic (NTI	(ن	Pumping Rate	Depth to Water (ft below
4454		S														TOC)
1151	X		9.01	NA NA	25.1	NA O	5700	NA .	2.57	NA	-347.8	NA .	992	NA .	120	3.12
1156	X	_	9.81	0.80	21.5	-3.6	3700	-2000	2.00	-0.57	-395.0	-47.2	1089	97	120	3.49
1201	06 X 10.04 0.11			22.5	1.0	3160	-540	1.86	-0.14	-385.4	9.6	716	-373	120	3.75	
1206				22.8	0,3	2970	-190	1.81	-0.05	-383.4	2.0	467	-249	120	3.81	
1211	X 10.19 0.15			22.3	-0.5	2890	-80	1.57	-0.24	-373.1	10.3	237	-230	120	4.22	
216				23.2	0.9	2920	30	1.43	-0.14	-381.7	-8.6	131	-106	120	4.23	
1221	Х		9.91	-0.32	23.2	0.0	3290	370	1.65	0.22	-375.3	6.4	95.3	-35.7	120	4.23
1226	Х		10.28	0.37	22.4	-0.8	3040	-250	1.80	0.15	-380.9	-5.6	64.0	-31.3	120	4.29
1231	х		10.24	-0.04	22.5	0.1	3120	80	1.87	0.07	-378.7	2.2	33.2	-30.8	120	4.35
1236	Х		10.22	-0.02	22.5	0.0	3190	70	1.83	-0.04	-378.2	0.5	19.3	-13.9	120	4.46
1241	Х		10.22	0.00	22.5	0.0	3220	30	1.89	0.06	-384.0	-5.8	15.0	-4.3	120	4.53
1246	Х		10.09	-0.13	23.0	0.5	3330	110	1.87	-0.02	-387.4	-3.4	13.0	-2.0	120	4.62
1251	х		9.95	-0.14	23.0	0.0	3480	150	1.88	0.01	-387.0	0.4	10.03	-2.97	120	4.71
1256	х		9.93	-0.02	23.2	0.2	3450	-30	1.86	-0.02	-388.8	-1.8	9.98	-0.05	120	4.80
1301	х		9.93	0.00	23.0	-0.2	3490	40	1.82	-0.04	-388.0	0.8	9.59	-0.39	120	4.89
1306		Х	9.90	-0.03	23.2	0.2	3470	-20	1.83	0.01	-387.6	0.4	9.00	-0.59	120	4.93
	06 X 9.90 -0.03															
					:											
Comment	s:		_									<u></u>				
			Pump or	n @ 11	49	Sampl	e time: 1	302								

													Sheet	1	of	
	Si	ite: .		1	Edgewater	•			Clien	t / Site:	·		GZA			
	Da	ite:			6/28/2007				Field Per	sonnel:		St	eve Schul	ze		
W	eath	er:			89°F Sun					Job#				<u>.</u>		
Monitoring	g We	H#:		MW-53			Well Depth:	1.	3.60	ft	Scr	ened/Op	en Interval:		NA	ft
Well I		•		NA		Wel	I Diameter:		2	inches						
PID/FID Ro (ppm):	eadin		Background	d: .		0.0			Pump Intak	e Depth:		8.0		ft below	тос	
			Beneath Ou	iter Cap:	<u> </u>	0.0		. '	Depth to Wa	iter Befor	e Pump Ins	tallation:	2.8	5	ft below TC	ю
		_	Beneath Ini	ner Cap:		0.0	Spec	· ific	Purge Disso	Method	Bl Rede	adder Pur	np		1	Depth to
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Conduction (us/c	ctivity m)	Oxyg (mg/	en 'L)	Poten (m\ Reading	tial ')	Turbi (NTI Reading	U)	Pumping Rate (ml/min)	Water (ft below TOC)
1341	X	Ť	6.82	NA NA	21.2	NA NA	3860	NA NA	2.06	NA NA	-318.0	NA NA	2424	NA	360	2.85
1346	46 X 6.74 -0.08		-0.08	16.6	-4.6	3850	-10	1.50	-0.56		-11.1	424	-2000		2.85	
1351	951 X 6.78 0.0		0.04	15.6	-1.0	3820	-30	1.53	0.03		-8.8	264	-160	360	2.85	
1356	56 X 6.83 0.		0.05	15.4	-0.2	3770	-50	1.43	-0.10	-339.5	-1.6	195	-69	360	2.85	
1401	01 X 6.84 0.0		0.01	15.3	-0.1	3730	-40	1.30	-0.13	-344.8	-5.3	69.1	-125.9	360	2.85	
406	1 X 6.84 0.01		0.02	15.2	-0.1	3720	-10	1.24	-0.06	-348.6	-3.8	36.9	-32.2	360	2.85	
1411	х		6.85	-0.01	15.3	0.1	3710	-10	1.28	0.04	-350.5	-1.9	22.9	-14.0	360	2.85
1416	Х		6.85	0.00	15.3	0.0	3720	10	1.31	0.03	-351.6	-1.1	17.5	-5.4	360	2.85
1421	х		6.85	0.00	15.2	-0.1	3730	10	1.24	-0.07	-351.8	-0.2	12.4	-5.1	360	2.85
1426	x		6.85	0.00	15.2	0.0	3730	0	1.21	-0.03	-351.2	0.6	8.42	-3.98	360	2.85
1431	х		6.85	0.00	15.2	0.0	3730	0	1.19	-0.02	-352.1	-0.9	8.62	0.20	360	2.85
1436	х		6.85	0.00	15.3	0.1	3740	10	1.18	-0.01	-353.1	-1.0	8.11	-0.51	360	2.85
1441		Х	6.85	0.00	15.5	0.2	3740	0	1.12	-0.06	-355.2	-2.1	7.77	-0.34	360	2.85
ļ																:
ļ																
<u> </u>																
	<u> </u>			<u> </u>												
	_															
Commen	.5 :		Pump o	n @ 13	38	Samp	le time: 1	437								

													Sheet	1	of .	1
	S	ite:			Edgewater	r		-	Clier	it / Site:			GZA			
	Da	ıte: .			6/28/2007			-	Field Per	sonnel:		To	om Lesins	ki		
W	eath	ıer:			89°F Sun					Job#						
Monitorin	g We	II #:		MW-66		. '	Well Depth:	1	4.20	_ft	Scr	ened/Op	en interval:		NA	ft
				NA		. Wel	Il Diameter:		2	inches						
PID/FID Ro (ppm):	≥adin		Background	d: .		0.0		-	Pump Intak	e Depth:		10.0		ft below	тос	
			Beneath Ou	iter Cap:		0.0		. '	Depth to Wa	ater Befor	e Pump ins	tallation:	4.99	9	ft below TO	С
			Beneath Inr	ner Cap:		0.0	Spec	iffa	Purge Dissol		BI Rede		np		1	Depth to
TIME	Purging	Sampling	pH (pH un	nits)	Temper (°C) Reading	;)	Conduc (us/c	ctivity cm)	Oxyg (mg/	gen /L)	Poten (mV	ntial /)	Turbio (NTI	U)	Pumping Rate	Water (ft below
2244		S	Reading						Reading				Reading		(ml/min)	TOC)
0811	X	H	6.33	NA .	16.0	NA O	3240	NA 10	0.87	NA .	-278.8	NA .	192	NA	340	5.01
0816	X		6.38	0.05	15.7	-0.3	3200	-40	0.82	-0.05		-11.9	93.8	-98.2	340	5.01
0821	X	H	6.46	0.08	15.6	-0.1	3180	-20	0.70	-0.12		-19.2	78.2	-15.6	340	5.01
0826	X	H	6.53	0.07	15.6	0.0	3170	-10	0.51	-0.19	-326.5	-16.6	76.4	-1.8	340	5.01
0831	X		6.58	0.05	15.5	-0.1	3170	0	0.42	-0.09	-337.5	-11.0	31.5	-44.9	340	5.01
836	X		6.64	0.06	15.5	0.0	3170	0	0.32	-0.10	-348.8	-11.3	13.3	-18.2	340	5.01
0841	х	Щ	6.67	0.03	15.5	0.0	3170	0	0.24	-0.08	-352.7	-3.9	10.76	-2.54	340	5.01
0846	х	Щ	6.69	0.02	15.5	0.0	3160	-10	0.24	0.00	-357.4	-4.7	9.44	-1.32	340	5.01
0851	х		6.77	0.08	15.4	-0.1	3160	0	0.19	-0.05	-369.1	-11.7	7.55	-1.89	340	5.01
0856	х		6.77	0.00	15,4	0.0	3160	0	0.20	0.01	-370.4	-1.3	7.62	0.07	340	5.01
0901	х	Ц	6.79	0.02	15.4	0.0	3160	0	0.19	-0.01	-374.9	-4.5	7.60	-0.02	340	5.01
0906		х	6.81	0.02	16.0	0.6	3160	0	0.17	-0.02	-378.8	-3.9	7.45	-0.15	340	5.01
					1											
	Г															
	\Box	Н														
	\vdash	H											:			
Comment	ts:	Ш			ON 080		PLE CLI	EAR/NC	ODOR	<u> </u>				1	<u></u>	
					PLED @ (Y EARTH		'ING EQ	UIPME ¹	NT WOF	≀KING '	WITHIN	10FT. (OF WEL	L		

								·					Sheet	1_	of .	1
	s	ite:			Edgewater	<u> </u>			Clier	nt / Site:			GZA			
	Da	ite:			6/28/2007	······································			Field Per	sonnel:		Ţ	om Lesins	ki		
W	eath	er:			89°F Sun					Job#						
Monitorin	g We	U#:		MW-72			Well Depth:	1	4.40	ft	Scr	ened/Op	en Interval:		NA	ft
Well I				NA		We	II Diameter:		2	inches						
PID/FID Ro (ppm):	eadir		Background	d:		0.0			Pump Intal	e Depth:		8.5	 	ft below	тос	
			Beneath Ou	ıter Cap:		0.0			Depth to Wa	ater Befor	e Pump Ins	tallation:	3.4	8	ft below TO	ж
		<u>1</u>	Beneath In:	ner Cap:		0.0	Spec	isia.	Purg- Disso	e Method	Bi Red	adder Pur	пр		I	Depth to
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Conduction (us/c	ctivity m)	Oxyg (mg	jen (L)	Poten (m\ Reading	tial ')	Turbi (NT Reading	u) ¯	Pumping Rate (ml/min)	Water (ft below TOC)
0947	X		6.79		18.0	NA NA	1173	NA.	0.25	NA NA	-185.3	25	356		260	3.49
0952	^		6.79	0.00	16.7	-1.3	1170	-3	0.21	-0.04		-2.8	383	27	260	
						-0.3	1147	-23	0.21	0.00			196	-187		3.49
1002	X X		6.84	0.05	16.4 16.3	-0.1	1123	-24	0.21	-0.06		3.0 -9.8	132	-64	260 260	3.49
1007	X		6.94	0.05	16.2	-0.1	1106	-17	0.13	-0.02		-6.3	89.6	-42.4	260	3.49
012	X		6.98	0.04	16.2	0.0	1090	-16	0.11	-0.02		-6.4	56.7	-32.9	260	3.49
1017	X		7.00	0.02	16.2	0.0	1087	-3	0.12	0.01	-210.5	-2.9	43.1	-13.6		3.49
1022	X		7.00	0.00	16.2	0.0	1079	-8 -7	0.12	0.00	-214.1	-3.6	31.8	-11.3		3.49
1027	X		7.00	0.00	16.2	0.0	1072	-7	0.12	0.00	-218.2	-4.1	21.7	-10.1	260	3.49
1032	X		7.01	0.01	16.1	-0.1	1062	-10	0.11	-0.01		-3.2	16.0	-5.7	260	3.49
1037	X		7.02	0.01	16.2	0.1	1064	2	0.11	0.00		-5.8	11.6	-4.4	260	3.49
1042	X		7.01	-0.01	16.2	0.0	1059	-5	0.11	0.00	-229.2	-2.0	11.5	-0.1	260	3.49
1047	X		7.01	0.00	16.2	0.0	1056	-3	0.11	0.00	-231.4	-2.2	11.3	-0.2	260	3.49
1052		Х	7.00	-0.01	16.9	0.7	1050	-6	0.13	0.02	-233.7	-2.3	11.0	-0.3	260	3.49
									-							
<u> </u>																
				ļ												
<u> </u>		_														
		_														
Commen	ts:				ON 094 PLED @		PLE CLE	:AR/N(אסטט כ							

													Sneet		OT	
					Edgewate	•••	•	•		·	· · · · · · · · · · · · · · · · · · ·					
			-		6/28/2007			_	Field Per		 	To	om Lesins	ki	·	1
W	eath	er:			89°F Sun					Job#		<u> </u>				
Monitorin	g We	!1 # :		MW-48		. 1	Well Depth:	1(6.95	ft	Scr	eened/Op	en interval:		NA	.ft
				NA		Wel	Il Diameter:		2	inches			***			
PID/FID Re (ppm):	eadin	gs	Background	d:		0.0		-	Pump Intal	e Depth:		8.0		ft below	тос	
			Beneath Ou	ıter Cap:		0.0		. '	Depth to Wa	ater Befor	e Pump Ins	tallation:	3.0	9	ft below TC	С
			Beneath In	ner Cap:		0.0					BI		np		, ···	
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper (°C Reading)	Spec Conduc (us/c Reading	ctivity m)	Disso Oxyg (mg Reading	jen (L)	Rede Poten (m\ Reading	rtial /)	Turbi (NTI Reading	J) I	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
1150	X				17.9		5600		3.10		-324.1					
			6.63	NA O	 i	NA O		NA OO	· · · · · · · · · · · · · · · · · · ·	NA O 4			12.1	NA OC	350	3.12
1155	Х		6.63	0.00	17.6	-0.3	5620	20	1.76		-331.0		10.24		350	3.15
1200	Х	-	6.66	0.03	17.5	-0.1	5700	80	1.39	-0.37	-347.5	-16.5	5.37	-4.87	350	3.15
1205	X		6.70	0.04	17.4	-0.1	5700	0	0.61	-0.78	-360.5	-13.0	4.60	-0.77	350	3.15
1210	Х		6.71	0.01	17.3	-0.1	5740	40	0.42	-0.19	-364.0	-3.5	3.72	-0.88	350	3.15
215	Х		6.71	0.00	17.4	0.1	5730	-10	0.44	0.02	-365.5	-1.5	3.33	-0.39	350	3.15
1220	х		6.72	0.01	17.4	0.0	5780	50	0.45	0.01	-371.1	-5.6	3.35	0.02	350	3.15
1225	х		6.73	0.01	17.4	0.0	5790	10	0.46	0.01	-373.2	-2.1	3.31	-0.04	350	3.15
1230		Х	6.75	0.02	18.3	0.9	5800	10	0.51	0.05	-375.0	-1.8	3.28	-0.03	350	3.15
											,		,		·	
			-										<u>-</u> .			
	-															
	-															
	_								····							
														ļ		
																
Comment	s:	_	-		ON 114 PLED @		PLE CLE	EAR/NC	ODOR						-	

											-		Sneet		. Of	
	s	ite:			Edgewate	r		-	Clier	nt / Site:			GZA			
	D	ate:			6/28/2007	•		•	Field Per	sonnel:		T	om Lesins	iki		
W	/eatl	ner:			89°F Sun			•	· · · · · · · · · · · · · · · · · · ·	Job#						
Monitorin	g We	:# II		MW-67		-	Well Depth:	1	1.65	_ft	Scr	eened/Op	en Interval:		NA	ft
				NA		_ We	ll Diameter:		2	inches						
PID/FID R (ppm):	eadir	ngs	Backgroun	d:		0.0			Pump Intal	e Depth:		10.5		ft below	тос	
			Beneath Ou	ıter Cap:		0.0			Depth to Wa	ater Befor	e Pump Ins	tallation:	5.3	0	ft below TO	С
			Beneath In	ner Cap:		0.0			Purg	e Method	В	adder Pu	тр	-		
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper	;)	Spec Conduc (us/c Reading	tivity m)	Disso Oxyg (mg	jen (L)	Red Poter (m\	itial /)	Turbi (NT	ບ) ່	Pumping Rate	Depth to Water (ft below
		8		Change		Change		Change	Reading	Change			Reading	Change	(ml/min)	TOC)
1316	X	\dashv	6.98	NA NA	17.6	NA	5230	NA	1.71	NA	-215.6	NA	724	NA NA	300	5.30
1321	×	-	6.82	-0.16	17.6	0.0	4420	-810	1.08	-0.63	-277.8	-62.2	153	-571	300	5.30
1326	х		6.74	-0.08	17.6	0.0	4330	-90	1.01	-0.07	-296.2	-18.4	77.8	-75.2	300	5.30
1331	x		6.69	-0.05	17.6	0.0	4310	-20	0.81	-0.20	-314.3	-18.1	33.1	-44.7	300	5.30
1336	x		6.68	-0.01	17.6	0.0	4360	50	0.70	-0.11	-327.4	-13.1	17.0	-16.1	300	5.30
841	x		6.67	-0.01	17.6	0.0	4330	-30	0.54	-0.16	-338.8	-11.4	11.7	-5.3	300	5.30
1346	х		6.67	0.00	17.6	0.0	4370	40	0.43	-0.11	-347.6	-8.8	8.66	-3.04	300	5.30
1351	х		6.65	-0.02	17.6	0.0	4390	20	0.29	-0.14	-355.6	-8.0	6.35	-2.31	300	5.30
1356	Х		6.66	0.01	17.6	0.0	4370	-20	0.29	0.00	-352.3	3.3	6.19	-0.16	300	5.30
1401	x		6.67	0.01	17.6	0.0	4380	10	0.28	-0.01	-353.3	-1.0	5.98	-0.21	300	5.30
1406		х	6.67	0.00	18.5	0.9	4390	10	0.29	0.01	-351.9	1.4	5.01	-0.97	300	5.30
L																
											-					
Comment	s:		I .				PLE CLE	AR/NC	ODOR	1		!				
				SAMP	LED @ 1 1300	1402										ŀ

r				·						·			Sneet		_ Of	
	S	ite:	·	1	Edgewate	<u>r </u>		-	Clier	nt / Site:			GZA			-
					6/29/2007			-	Field Per	sonnel:		St	eve Schul	ize		•
W	/eat	ner:		7	2°F Cloud	s				Job#						•
Monitorin	g We	il #:		MW-21		•	Well Depth:	1	5.51	_ft	Scr	eened/Op	en Interval:		NA	ft
				NA .		We	Il Diameter:		2	inches						
PID/FID R (ppm):	eadıı	ngs	Backgroun	d:		0.0		•	Pump Intal	ce Depth:		9.0		ft below	тос	
			Beneath Ou	ıter Cap:		0.0			Depth to Wa	ater Befor	re Pump Ins	taliation:	3.9	8	ft below TO	ж
	,		Beneath In	ner Cap:		11.9					В	-	пр	•		
TIME	Purging	Sampling	pH (pH ur Reading	nits)	Temper)	Spec Conduc (us/c Reading	ctivity :m)	Disso Oxyg (mg Reading	jen (L)	Red Poter (m\ Reading	rtial /)	Turbi (NT Reading	ຫັ	Pumping Rate	Depth to Water (ft below
0024		55										Criange		Gnange	(ml/mln)	TOC)
0834	X		6.62	NA .	17.8	NA .	3480	NA .	2.72	NA	-80.8	NA NA	40.3	NA .	375	3.98
0839	X		6.61	-0.01	16.0	-1.8	2060	-1420	3.00	0.28	-143.4	-62.6	30.3	-10.0	375	3.98
0844	Х		6.65	0.04	16.2	0.2	1511	-549	3.11	0.11	-229.9	-86.5	23.1	-7.2	375	3.98
0849	Х		6.69	0.04	16.4	0.2	1345	-166	1.17	-1.94	-264.6	-34.7	13.4	-9.7	375	3.98
0854	х		6.70	0.01	16.4	0.0	1250	-95	1.02	-0.15	-283.7	-19.1	6.04	-7.36	375	3.98
359	х		6.70	0.00	16.4	0.0	1209	-41	0.47	-0.55	-288.3	-4.6	5.76	-0.28	375	3.98
0904	х		6.69	-0.01	16.5	0.1	1187	-22	0.30	-0.17	-290.0	-1.7	3.10	-2.66	375	3.98
0909	Х		6.67	-0.02	16.4	-0.1	1177	-10	0.24	-0.06	-288.9	1.1	2.62	-0.48	375	3.98
0914	x		6.65	-0.02	16.4	0.0	1169	-8	0.12	-0.12	-289.7	-0.8	1.70	-0.92	375	3.98
0919	х		6.63	-0.02	16.4	0.0	1158	-11	0.13	0.01	-292.0	-2.3	1.67	-0.03	375	3.98
0924	х		6.60	-0.03	16.5	0.1	1149	-9	0.13	0.00	-294.3	-2.3	1.61	-0.06	375	3.98
0929		х	6.58	-0.02	16.5	0.0	1147	-2	0.13	0.00	-297.1	-2.8	1.58	-0.03	375	3.98
			:													
Comment	s:		_				<u>.</u>	<u> </u>			<u> </u>					
			Pump or Duplicate				e time: 0	925								1

								_					Sheet	1	of	1
	Si	te:		E	dgewater				Clien	t / Site:			GZA			
	Da	te:_			6/29/2007				Field Per	sonnel:		St	eve Schul	ze		
w	eath	er: _		7;	3°F Cloud	s			**********	Job#						
Monitorin	g Wel	l#:_		MW-70		١	Well Depth:	1:	3.17	ft	Scre	ened/Op	en Interval:		NA	ft
Well I		_		NA		Wel	l Diameter:	· · · · · · · · · · · · · · · · · · ·	2	inches						
PID/FID Ro (ppm):	eadin	_	Background	d: _		0.0			Pump Intak	e Depth:		10.0		ft below	тос	
			Beneath Ou	ter Cap:		0.0		1	Depth to Wa	iter Befor	e Pump Inst	allation:	4.66	3	ft below TC	С
		- 1	Beneath Inr	ner Cap:		0.0	Speci	ific	Purge		Bla		np		1	Depth to
TIME	Purging	Sampling	pH (pH ur Reading	its)	Temper (°C Reading)	Conduction (us/c	tivity m)	Oxyg (mg/ Reading	en L)	Poten (mV Reading	tial ')	Turbic (NTI Reading	J) ¯	Pumping Rate (ml/min)	Water (ft below TOC)
4000		S												Ť		
1022	X	4	6.90	NA O 4 O	19.5	NA O O	3070	NA CO	1.80	NA 4 22	-281.6	22.0	2088	NA 446	490	4.67
1027	X		6.80	-0.10	17.2	-2.3	3090	20	0.48	-1.32	-305.5	-23.9	1642	-446	490	4.82
1032	X		6.75	-0.05	16.6	-0.6	3100	10	0.35	-0.13		-2.5	340	-1302	280	4.91
1037	X		6.72	-0.03	16.7	0.1	3100	0	0.41	0.06		-2.1	148	-192	280	4.91
1042	X		6.71	-0.01	16.6	-0.1	3110	10	0.33	-0.08		-2.7	104.9	-43.1	280	4.91
J47	X	_	6.71	0.00	16.7	0.1	3110	0	0.30	-0.03	-310.7	2.1	77.8	-27.1	280	4.91
1052	Х		6.70	-0.01	16.5	-0.2	3110	0	0.34	0.04	-314.4	-3.7	53.6	-24.2	280	4.91
1057	X	_	6.71	0.01	16.5	0.0	3110	0	0.33	-0.01	-314.7	-0.3	51.0	-2,6	280	4.91
1102	Х		6.72	0.01	16.5	0.0	3110	0	0.36	0.03	-316.3	-1.6	46.4	-4.6	280	4.91
1107	х		6.74	0.02	16.5	0.0	3110	0	0.39	0.03	-318.9	-2.6	39.8	-6.6	280	4.91
1112	x		6.75	0.01	16.4	-0.1	3120	10	0.40	0.01	-321.1	-2.2	31.3	-8.5	280	4.91
1117	х		6.75	0.00	16.3	-0.1	3120	0	0.42	0.02	-321.7	-0.6	29.8	-1.5	280	4.91
1122	х		6.77	0.02	16.3	0.0	3120	0	0.41	-0.01	-323,8	-2.1	30.9	1.1	280	4.91
1127		Х	6.78	0.01	16.2	-0.1	3120	0	0.40	-0.01	-326.8	-3.0	28.7	-2.2	280	4.91
											7.					
L																
Commen	ts:		Pump o	n @ 10)19	Samn	le time: 1	123								
I			٠ ٣٠٠٠٠													1



GZA GeoEnvironmental of New York Engineers and Scientists IPark Edgewater LLC

45 River Road Edgewater, NJ WELL ID.: MW-3

PROJECT NO: 41.0161318.00

GZA Representative: S. Fhamy

Date: 9/18/2007

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

PURGE DEPTH (ft.): 9.2 PURGE RATE (ml/min): Approx. 120

COLUMN OF WATER IN WELL: Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T) 14.28 - 4.19 = 10.09

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
10:35:00 AM							•	Pump ON
10:45:00 AM	4.24	6.79	13.7	13.7	0	18.89	-372	
10:50:00 AM	4.21	6.87	12.4	12.4	0	19.47	-386	
11:18:00 AM	4.21	7.49	11.6	11.6	0.06	19.31	-347	
11:23:00 AM	4.2	7.01	11.1	11.1	0	19.04	-386	
11:28:00 AM	4.19	6.96	11.1	11.1	0	18.75	-389	
11:33:00 AM	4.19	6.96	11.3	11.3	0	19.3	-393	
11:38:00 AM	4.19	6.98	11.1	11.1	0	19.9	-394	
11:43:00 AM								Started Sample Collection
12:01:00 PM	4.2	7.6	9.22	9.22	0	21.88	-419	Sample Completed - Pump OFF
							·	
						, :		
						:		

10:55 - Generator stopped for 2 minutes.

10:58 - Generator ran out of gas; restarted pumping at 11:17.

NOTES



GeoEnvironmental of New York Engineers and Scientists

IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-25

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

PURGE DEPTH (ft.): 10.2 PURGE RATE (ml/min): Approx. 120 Date: 9/18/2007

GZA Representative: S. Fhamy

COLUMN OF WATER IN WELL: Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T) 13.14 - 5.18 = 7.96

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
4:24:00 PM								Pump ON
4:25:00 PM	5.17	6.89	22.7	22.7	2.78	18.7	-222	
4:30:00 PM	5.18	6.8	21.4	21.4	0	19.23	-250	
4:35:00 PM	5.18	6.82	18.4	18.4	0.2	19.8	-261	
4:40:00 PM	5.17	6.93	14.3	14.3	0 1	20.37	-299	
4:45:00 PM	5.18	6.94	11.6	11.6	0	20.63	-336	
4:50:00 PM	5.19	6.93	10	10	0	20.63	-358	
4:55:00 PM	5.18	6.89	10	10	0	20.69	-363	
5:00:00 PM	5.18	6.86	10.1	10.1	0	20.99	-368	
5:03:00 PM								Started Sample Collection
5:22:00 PM	5.19	6.89	5.37	5.37	0	20.53	-380	Sample Completed - Pump
								OFF
		•						
					}			

17:12 - Generator ran out of gas during sampling; switched generators to finish sampling.

NOTES



GZA GeoEnvironmental of New York Engineers and Scientists IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-32

PROJECT NO: 41.0161318.00

GZA Representative: S. Fhamy

Date: 9/18/2007

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

PURGE DEPTH (ft.): 9.4 PURGE RATE (ml/min): Approx. 115

COLUMN OF WATER IN WELL: Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T) 15.11 - 4.35 = 10.76

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
3:32:00 AM								Pump ON
3:35:00 AM	4.99	6.46	14.9	14.9	0.07	24.61	-132	
3:45:00 AM	5.13	6.55	14.3	14.3	0	25.55	-158	
3:50:00 AM	5.11	6.58	12.9	12.9	0	26.19	-162	Pump shut off temporarly
3:55:00 AM	5.09	6.61	12.7	12.7	0	26.27	-165	
4:00:00 AM	5.09	6.61	12.4	12.4	0	26.54	-168	
4:05:00 AM	5.11	6.6	11.9	11.9	0	26.8	-170	
4:10:00 AM	5.01	6.62	10.4	10.4	0	26.39	-172	
4:15:00 AM	5.05	6.62	10.5	10.5	0	26.55	-172	
4:20:00 AM	5.04	6.25	11.8	11.8	0	27.18	-187	
4:25:00 AM	5.04	6.29	15.5	15.5	0	27.1	-198	
4:30:00 AM	5.11	6.31	16.1	16.1	0	29.14	-206	
4:35:00 AM	5.15	6.43	15	15	0	28.95	-212	
4:40:00 AM	5.13	6.4	14.5	14.5	0	28.76	-213	
4:45:00 AM	5.1	6.43	13.8	13.8	o	28.21	-214	Started Sample Collection
4:59:00 AM	5.59	6.68	10.3	10.3	o	27.48	-223	Sample Completed - Pump OFF
							:	



GZA GeoEnvironmental of New York Engineers and Scientists Park Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-33

PROJECT NO: 41.0161318.00

GZA Representative: A. Hough

Date: 9/18/2007

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

PURGE DEPTH (ft.): 9 PURGE RATE (ml/min): Approx. 165

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T) 13.34 - 4.03 = 9.31

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
2:36:00 PM	4.03]		Pump ON
2:38:00 PM	4.08	6.98	6.62	6.62	0.96	23.28	-184	
2:43:00 PM	4.05	6.74	6.12	6.12	0	24.27	-192	
2:48:00 PM	4.06	6.74	5.86	5.86	0	24.64	-200	
2:53:00 PM	4.06	6.75	5.69	5.69	0	25.28	-208	
2:58:00 PM	4.07	6.76	5.56	5.56	0	25.26	-214	
3:03:00 PM	4.07	6.77	5.39	5.39	0	25.31	-218	
3:08:00 PM	4.06	6.78	5.26	5.26	0	25.23	-223	
3:13:00 PM	4.06	6.79	5.16	5.16	0	25.35	-227	
3:18:00 PM	4.06	6.8	5.12	5.12	0	25.2	-230	
3:23:00 PM	4.07	6.81	5.09	5.09	0	25.49	-232	
3:28:00 PM	4.05	6.81	5.07	5.07	0	25.81	-233	
3:30:00 PM				ĺ				Started Sample Collection
3:41:00 PM	4.09	6.83	4.99	4.99	0	25.56	-238	Sample Completed - Pump
				İ				OFF
				ĺ				
				İ				
				ĺ		:		
				ĺ				
				ĺ				
				ĺ				
				İ				
	1			ĺ				
				İ				
				ĺ				
				ĺ				



GZA GeoEnvironmental of New York Engineers and Scientists IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-34

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

Date: 9/18/2007

GZA Representative: S. Fhamy

PURGE DEPTH (ft.): 9.4 PURGE RATE (ml/min): Approx. 100

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T) 13.83 - 5.38 = 8.45

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
12:35:00 PM								Pump ON
12:40:00 PM	5.49	6.74	7.32	7.32	0	19.47	-367	
12:45:00 PM	5.48	6.67	7.2	7.2	0	19.99	-379	
12:50:00 PM	5.46	6.65	6.98	6.98	0	20.62	-382	
12:55:00 PM	5.46	6.66	6.9	6.9	0	20.91	-385	
1:00:00 PM	5.46	6.66	6.84	6.84	0	21.12	-384	
1:05:00 PM	5.45	6.66	6.81	6.81	0	21.2	-381	
1:10:00 PM	5.44	6.66	6.78	6.78	0	21.19	-381	
1:15:00 PM	5.45	6.66	6.75	6.75	0	21.22	-381	
1:20:00 PM	5.45	6.67	6.74	6.74	0	21	-379	
1:21:00 PM			1					Started Sample Collection
2:00:00 PM	5.45	6.68	6.74	6.74	0	21.1	-380	Sample Completed - Pump OFF
						:		



GZA GeoEnvironmental of New York Engineers and Scientists IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-35

PROJECT NO: 41.0161318.00

GZA Representative: A. Hough

Date: 9/18/2007

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

PURGE DEPTH (ft.): 11.4 PURGE RATE (ml/min): Approx. 110

COLUMN OF WATER IN WELL: Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T) 15.26 - 6.34 = 8.92

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
10:21:00 AM								Pump ON
10:24:00 AM	6.72	8.48	18.1	18.1	0	21.81	-412	
10:29:00 AM	6.59	8.65	16.7	16.7	0	22.85	-442	
10:34:00 AM	6.54	8.9	14.1	14.1	o	23.71	-458	
10:39:00 AM	6.5	9.22	12.2	12.2	0	23.93	-480	
10:46:00 AM	6.51	9.44	10.7	10.7	0	24.58	-496	
10:51:00 AM	6.51	9.56	10.5	10.5	0	24.7	-498	
10:56:00 AM	6.5	10.22	9.3	9.3	0	25.26	-530	
11:01:00 AM	6.53	10.75	5.47	5.47	0	25.71	-552	
11:06:00 AM	6.53	10.92	5.51	5.51	0	25.74	-553	
11:11:00 AM	6.56	10.87	5.38	5.38	0	26.04	-552	
11:16:00 AM	6.59	10.88	5.38	5.38	0	25.94	-551	
11:21:00 AM	6.53	10.83	5.25	5.25	0	25.9	-549	
11:26:00 AM	6.52	10.78	5.21	5.21	0	25.98	-547	
11:30:00 AM								Started Sample Collection
11:47:00 AM	6.58	9.8	5.04	5.04	0	25.89	-494	Sample Completed - Pump
							•	OFF
			<u> </u>					
İ								
						·	1	
	<u> </u>							
								<u> </u>



IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-36

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom) GZA Representative: A. Hough Date: 9/17/2007

PURGE DEPTH (ft.): 9.3 PURGE RATE (ml/min): Approx. 120

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

14.77 - 4.31 = 10.46

WATER QUALITY:

2:45:00 PM 2:47:00 PM 2:52:00 PM	4.18							1
			1					Pump ON
2:52:00 PM		5.19	0	0	8.76	20.24	48	
	4.21	5.19	0	0	8.61	20.11	45	
2:57:00 PM	4.34	5.24	0	0	8.45	20.76	37	
:02:00 PM	4.26	5.23	0	0	8.52	20.68	42	
3:08:00 PM	4.26	5.28	0	0	8.33	21.51	39	
:13:00 PM	4.28	5.3	0	0	8.27	22.08	44	
3:18:00 PM		5.35	0	0	7.99	23.51	48	
3:21:00 PM								Started Sample Collection
:38:00 PM								
:44:00 PM	4.33	4.99	0	0	8.15	24.11	38	
:40:00 PM								Sample Completed - Pump OFF

Horiba cap accidently left on during sampling.

NOTES

MW-36



GZA GeoEnvironmental of New York Engineers and Scientists IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-48

PROJECT NO: 41.0161318.00

GZA Representative: S. Fhamy

Date: 9/17/2007

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

PURGE DEPTH (ft.): 8.4 PURGE RATE (ml/min): Approx. 110

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T) 16.95 - 3.39 = 13.56

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
2:20:00 AM	3.42	6.95	10.7	10.7	0	21.49	-407	Pump ON
2:25:00 AM	3.41	6.97	11.3	11.3	0	21.95	-411	
2:30:00 AM	3.41	6.98	11.5	11.5	0	22.15	-412	
2:35:00 AM	3.41	6.99	12.1	12.1	. 0	22.39	-414	
2:40:00 AM	3.41	7	12	12	0	22.47	-415	
2:45:00 AM	3.41	7	11.9	11.9	0	22.52	-415	
2:50:00 AM	3.41	7	11.9	11.9	0	22.5	-416	Started Sample Collection
3:10:00 AM	3.55	6.97	7.55	7.55	0	21.44	-423	Sample Completed - Pump

MW-48



GeoEnvironmental of New York Engineers and Scientists

IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-52

PROJECT NO: 41.0161318.00

GZA Representative: S. Fhamy

Date: 9/17/2007

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

PURGE DEPTH (ft.): 9.0 PURGE RATE (ml/min): Approx. 100

COLUMN OF WATER IN WELL:
Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)
13.5 - 3.96 = 9.54

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
9:32:00 AM	3.96							Pump ON
9:36:00 AM	3.98	6.67	3.63	3.63	1.54	18.88	-289	
9:41:00 AM	3.97	6.73	3.69	3.69	0	19.47	-367	
9:46:00 AM	3.96	6.73	3.64	3.64	0	21.04	-381	
9:51:00 AM	3.96	6.73	3.72	3.72	0	20.18	-380	
9:56:00 AM	3.98	6.75	3.52	3.52	0	20.9	-373	
10:01:00 AM	3.97	6.75	3.49	3.49	0	20.95	-383	
10:06:00 AM	3.95	6.75	3.47	3.47	0	20.6	-386	
10:11:00 AM	3.96	6.74	3.43	3.43	0	20.76	-387	
10:15:00 AM	3.97	6.74	3.42	3.42	0	20.93	-388	Started Sample Collection
10:32:00 AM	3.97	6.75	3.58	3.58	O	21.25	-385	Sample Completed - Pump OFF
						:		
		-						



GZA GeoEnvironmental of New York Engineers and Scientists IPark Edgewater LLC

45 River Road Edgewater, NJ WELL ID.: MW-53

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

PURGE DEPTH (ft.): 7.9

PURGE RATE (ml/min): Approx. 150

Date: 9/17/2007

GZA Representative: S. Fhamy

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

14.41 - 2.91 = 11.5

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
11:15:00 AM	2.91							Pump ON
11:17:00 AM	2.92	6.91	4.28	4.28	0	17.94	-374	
11:22:00 AM	2.91	6.77	4.2	4.2	0	18.89	-383	
11:27:00 AM	2.9	6.78	4.16	4.16	0	19.48	-387	
11:32:00 AM	2.91	6.79	4.11	4.11	0	19.9	-391	
11:37:00 AM	2.91	6.8	4.1	4.1	0	20.08	-395	
11:42:00 AM	2.91	6.81	4.08	4.08	0	20.76	-394	
11:47:00 AM	2.91	6.81	4.09	4.09	0	20.82	-396	
11:52:00 AM	2.91	6.8	4.08	4.08	0	20.19	-392	
11:57:00 AM	2.91	6.8	4.13	4.13	0	20.27	-395	
12:02:00 PM	2.91	6.8	4.13	4.13	0	20.45	-398	
12:05:00 PM								Started Sample Collection
12:15:00 PM	3.19	6.82	3.97	3.97	0	18.12	-394	Sample Completed - Pump OFF
							:	

11:47 - Generator stopped working for one minute.

NOTES



GZA GeoEnvironmental of New York Engineers and Scientists IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-55

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

PURGE DEPTH (ft.): 8.5 PURGE RATE (ml/min): Approx. 110

Date: 9/18/2007

GZA Representative: S. Fhamy

COLUMN OF WATER IN WELL:
Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)

13.04 - 3.36 = 9.68

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
8:21:00 AM								Pump ON
8:25:00 AM	7.67	7.69	19	19	0	20.41	-417	
8:30:00 AM	3.63	7.63	18.8	18.8	0	20.15	-429	
8:35:00 AM	3.61	7.64	18.6	18.6	0	19.75	-434	
8:40:00 AM	3.76	7.68	14	14	0	21.75	-430	
8:45:00 AM	3.79	7.72	14.2	14.2	0	22.03	-435	
8:50:00 AM	3.81	7.72	13.8	13.8	0	22.25	-437	
8:55:00 AM	3.95	7.72	12.1	12.1	0	24.63	-435	
9:00:00 AM	3.96	8.02	11.5	11.5	0	24.48	-436	
9:05:00 AM	4.04	7.92	10.4	10.4	0	23.14	-438	
9:10:00 AM	4.09	8.06	10.3	10.3	0	23.69	-435	
9:15:00 AM	4.08	8.05	10	10	0	23.57	-437	
9:20:00 AM	4.09	8.06	9.9	9.9	0	21.92	-438	
9:25:00 AM	4.1	8.04	9.5	9.5	0	22.54	-436	Started Sample Collection
10:00:00 AM	4.8	8.94	6.41	6.41	0	22.22	-451	Sample Completed - Pump
				•				OFF
						•		
	}							

Flow rate adjusted to pump as slow as possible without the pump shutting off.

NOTES



GZA GeoEnvironmental of New York Engineers and Scientists IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-56

PROJECT NO: 41.0161318.00

GZA Representative: A. Hough

Date: 9/18/2007

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

PURGE DEPTH (ft.): 9.63 PURGE RATE (ml/min): Approx. 140

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T) 14.41 - 4.63 = 9.78

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
8:33:00 AM	4.61							Pump ON
8:36:00 AM	4.81	8.46	5.49	5.49	0	21.38	-396	
8:41:00 AM	4.68	8.93	4.96	4.96	0	20.84	-429	
8:46:00 AM	4.69	8.58	5.55	5.55	0	21.73	-413	
8:51:00 AM	4.69	8.74	5.42	5.42	0	22.18	-429	
8:56:00 AM	4.69	8.84	5.41	5.41	0	22.49	-437	
9:01:00 AM	4.7	8.91	5.44	5.44	0	22.53	-443	
9:06:00 AM	4.69	8.84	5.58	5.58	0	22.93	-442	
9:11:00 AM	4.69	8.87	5.56	5.56	0	22.9	-440	
9:16:00 AM	4.69	8.92	5.32	5.32	0	23.12	-451	
9:21:00 AM	4.69	9.06	5.1	5.1	0	23.21	-456	
9:26:00 AM	4.7	8.97	5.2	5.2	σ	23.31	-450	
9:31:00 AM	4.69	8.99	5.1	5.1	0	23.46	-454	
9:33:00 AM								Started Sample Collection
9:48:00 AM	4.73	8.48	5.1	5.1	0	23.58	-421	Sample Completed - Pump
								OFF
					1			

MW-56



GeoEnvironmental of New York Engineers and Scientists

IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-57

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

Date: 9/18/2007

GZA Representative: A. Hough

PURGE DEPTH (ft.): 11.5 PURGE RATE (ml/min): Approx. 110

COLUMN OF WATER IN WELL:

Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T) 14.71 - 6.55 = 8.16

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
12:21:00 PM								Pump ON
12:24:00 PM	6.58	8.15	8.85	8.85	0	17.99	-250	
12:29:00 PM	6.59	7.68	8.57	8.57	0	18.37	-265	
12:34:00 PM	6.61	7.65	3.87	3.87	0	19.06	-293	
12:39:00 PM	6.56	7.43	3.07	3.07	0	19.96	-302	
12:44:00 PM	6.56	7.32	2.98	2.98	0	19.52	-306	
12:49:00 PM	6.57	7.22	2.99	2.99	0	19.88	-311	
12:54:00 PM	6.57	7.16	3.04	3.04	0	20.09	-312	
12:59:00 PM	6.58	7.12	3.04	3.04	0	20.19	-316	
1:04:00 PM	6.57	7.09	3.04	3.04	0	20.26	-318	
1:09:00 PM	6.57	7.07	3.06	3.06	0	20.36	-322	
1:14:00 PM	6.57	7.04	3.07	3.07	0	20.43	-324	
1:18:00 PM	6.58	6.95	3.13	3.13	0	21	-350	Sample Completed - Pump OFF
			}					
т								<u> </u>



GeoEnvironmental of New York Engineers and Scientists

IPark Edgewater LLC

45 River Road Edgewater, NJ

WELL ID.: MW-58

PROJECT NO: 41.0161318.00

SAMPLING INTERVAL (ft.): to (from top of casing, top to bottom)

Date: 9/17/2007

GZA Representative: S. Fhamy

PURGE DEPTH (ft.): 9.2 PURGE RATE (ml/min): Approx. 125

COLUMN OF WATER IN WELL:
Depth to Bottom (ft.) - Static Water Level (ft.) = Water Column (T)
11.71 - 4.17 = 7.54

WATER QUALITY:

Time	Depth to Water (ft.)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygent (mg/l)	Temp. (C)	ORP	Notes
4:10:00 AM	7.53	3.64	0	0	4.1	17.44	-400	Pump ON
4:15:00 AM	6.89	3.56	-5	-5	4.14	17.85	-421	
4:20:00 AM	6.88	3.55	-5	-5	4.15	17.91	-425	
4:25:00 AM	6.9	3.49	-5	-5	4.16	19.12	-425	
4:30:00 AM	6.9	3.54	9.11	9.11	4.16	19	-423	
4:35:00 AM	6.9	3.55	9.22	9.22	4.16	18.91	-419	
4:40:00 AM	6.9	3.54	8.31	8.31	4.16	18.98	-421	
4:45:00 AM	6.89	3.53	8.38	8.38	4.16	19.17	-420	
4:50:00 AM	6.89	3.53	8.3	8.3	4.16	19.15	-421	
4:55:00 AM	6.89	3.53	8.29	8.29	4.16	19.21	-418	Started Sample Collection
5:05:00 AM	6.89	3.51	4.1	4.1	4.16	19.96	-420	Sample Completed - Pump OFF
						:		

NOTES

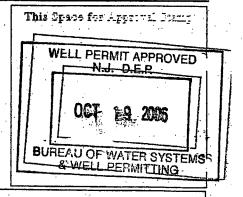
MW-58

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION TRENTON, NJ

26	0008	115	1

Mail To:	ING WELL PERMIT Permit No
VALID ONLY AFTE	R APPROVAL BY THE D.E.P.
UREAU OF WATER ALLOCATION O BOX 426	
RENTON, NJ 08625-0426	coord#: 26・14・21分
mer I Park Edgesder LIC.	Driller
	SUMMIT DRILLING CO., 1940.
iress 485 West Pitnua AVE	Bound Brook, NJ 08805
Greenwich CT 06830	
ne of Facility T Park Edgenater	Diameter of Well(s) Diameter of Well(s) Diameter Of Well(s) Depth of Well(s) Feet
Iress 45 River Road	# of Wells Will pumping equipment Applied for (max. 10) be utilized? YES NO
	Type of Well If Yes, give pump
Edverster NS. 07020	(See reverse) MODAN capacity cimulative GPM
	marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.
1 2 3	
4 5 6 4	
 	
 	
70549 9	V
	River Road NA
NI:	ED WELL LOCATION (NAD 83 HORIZONTAL DATUM) STATE PLANE COORDINATE IN US SURVEY FEET
40 0 4 9 NORTHING: _	EASTING:
LATITUDE	O C C I LONGTHIDE O F

RCRA Site		Spill Site
Underground Storage Tank Site		ISRA Site
Operational Ground Water Permit Site		CERCLA (Superfund) Site
Pretreatment and Residuals Site		
Water and Hazardous Waste Enforcement Case		CASE I.D. Number E 2 (Y) 40 24 7
Water Supply Aquifer Test Observation Well	٠	F-W M-Zie I
Other (explain)		



70	:		Issuance of this permit is subject to the conditions atta	ched.	(see p	ext pa	8E)
	USE			<u></u>			
			IMPORTANT PROVISIONS PERTAINING TO THIS PERMI				
in complian	ce∙with N	J.S	A.58:4A-14, application is made for a permit to drill a well a	is desc	riberi s	have:	

For monitoring purposes only

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY

Signature of Driller Signature of Property Owner MIDA

COPIES: Water Allocation - White Health Dept. - Yellow Owner - Blue

DWR	-133M
6/04	

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION TRENTON, NJ

	2	(;	CC	Of	T	4	3	6
	-		the	#15 ·	٠.			
٠.	٠		th	A SECOND	٠.	٠.		

MONITORING WELL PERMIT

. 2L	C	C.F	CY	4	İ
	•				

	I	/Iail	To:
-	ard D		

D ONLY AFTER APPROVAL RY THE DEP

Registration No.

BUREAU OF WATER ALLOCATION PO BOX 426 TRENTON, NJ 08625-0426	COORD#: 26.14 . 273
Owner I Park Edgewater LLC	Driller SUMMIT DRILLING CO., INC.
Address 485 West Putnum Ave	Address Bound Brook, NJ 08805
Greenwich C.T. 06830	
Name of Facility I Park Edge water	Diameter Proposed of Well(s) Inches Denth of Well(s) 7
Address 4.5 River Road	# of Wells Will pumping equipment
FARAUGTO NT 07020	Type of Well If Yes, give pump
LOCATION O	Gene reverse) Man for capacity cumulative GPM
Lot# Block# Municipality Boro County 1-5 99 Edgewer Bregen State Atlas Map No. 26	Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.
4 5 6 0 0 48 PROPOSED WEI 1 2 3 PROPOSED WEI NI STATE P NORTHING: LATITUDE: O CZA-136/MW-59 GZA-139/MW GZA-139/MW LATITUDE: O	7/mw-56 210 CZA-107/mw-54 7/mw-5 LL LOCATION (NAD 83 HORIZONTAL DATUM) PLANE COORDINATE IN US SURVEY FEET EASTING: OR LONGITUDE: 1 LONGITUDE: 2 LONGITUDE: 2 LONGITUDE: 2 LONGITUDE: 2 LONGITUDE: 2 LONGITUDE: 2 LONGITUDE: 3 LONGITUDE: 4 LONGI
FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED: RCRA Site Underground Storage Tank Site Department Site Operational Ground Water Permit Site Pretreatment and Residuals Site Water and Hazardous Waste Enforcement Case Water Supply Aquifer Test Observation Well Other (explain)	This Space for Approximate Systems WELL PERMIT APPROVE N.J. D.E.P. OCT 4 2006 BUREAU OF WATER SYSTE & WELL PERMITTING
USE WERE SIDE FOR IMPORTANT PROVISIONS PERGAINING TO THIS PERMIT.	For monitoring purposes only

Signature of Property Owner Allocation - White Health Dept. - Yellow Owner - Blue Driller - White

Signature of Driller

Signature of Property Owner Mano

DWR-133M 6/04

DEPARTMENT OF ENVIRONMENTAL PROTECTION TRENTON, NJ

 26	CC	(8	٥٥	74	2
	Has			÷	
 zi c	CC	80	9	-16	. 0

Mail	To:

BUREAU OF WATER ALLOCATION

MONITORING WELL PERMIT

1	V	LLD.	ONL	YAF.	TER APPR	OVAL	BY	THE D.	E.P.
	•	2							

Address	PO BOX 426 TRENTON, NJ 08625-0426	coord#: 24.14 · 212
Address SW Chimney Rock Road Bunnt Brook, NJ 08805 Greek with CT 06830 Jame of Facility T Park Edge water Switch I bear Constitution 1 bear Cons	Dwner I Pack Educate ILC	Driller SHAMIT BRILLING CO. INC
Address 45 River Road support of the Conditions		Address 9W Chimney Rock Road
Address 45 RIVER ROLL Address 45 RIVER ROLL TO TO TO THE WARD AND THE ROLL OF THE PLANE COORDINATE IN US SURVEY FEET NO THE WARD AND SURVEY WILLS OF PUZZONGTORS, THE POLLOPINON MINITER COMPLETED BY THE APPLICATION OF WELL, SECONDS WINITERS WI	Greekwich PT 1/6830	Bound Brook, NJ 08805
Address 5 River Roy September Septem	Name of Facility T Dearly E dearly	
Appeted for time. 10 Total Proper s Properties		
LOCATION OF WELL(S) Lot # 5 Block # 9 Municipality Bord County State Atlas Map No. 26 marked distances in feet. Each well MUST be labels with a name and/or number on the sketch. 40 0 50 DB-1 40 DB-2 240 DB-3 120 DB-3 PROPOSED WELL LOCATION (NAD IS HORIZUNIAL DATUM) NORTHING: BASTING: OR LONGITUDE: 0 DB-1 R MONITORNO WELLS, RECOVERY WELLS, OR PREZONETHES, THE POLLOWING MUST BE COMPLETED BY RE APPLICANT PLANE ROCATION WHAT THE WELLS ARE BEING NORTHLESS. OR CASE ID. Number OR CANCEL THE WELL S ARE BEING NORTHLESS. OCT 4 2006 Water and Herardous White Permit Sife; CERCLA (Superhead) Site Denotes and Herardous White Denote Site OCT 4 2006 BUREAU OF WATER SYST. WELL PERMIT APPROVE NUMBER SWEPT Application of this permit is subject to the conditions stacked. (See next page) USE Instance of this permit is adject to the conditions stacked. (See next page) USE Instance of this permit is adject to the conditions stacked. (See next page)		Applied for (max. 10) be utilized? YES NO
Draw sketch of well(s) nearest roads, buildings, etc., w marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch. 10		(see reverse) M (see reverse) cumulative GPM
State Atlas Map No. Continue		OF WELL(S)
This Space for Approximate Approximate Site Comparisonal Ground Water Permit Site Corporational Ground Water Permi	1-3 79 tobgeneter Beigen	Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled
PROPOSED WELL DOCATION (RAD 33 HORIZONIAL DATUM) NI STATE PLANE COORDINATE IN US SURVEY FEET NORTHING: OR LAITTUDE: OR LONGITUDE: OR L		28-3
PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM) NOTATION OF THE PLANE COORDINATE BY US SURVEY FEET REMONITORING WELLS, RECOVERY WELLS, OR PIEZOMSTERS, THE FOLLOWING MUST BE COMPLETED BY EAPPLICANT PLEASE NONCATE WHY THE WELLS ARE BEING INSTALLED. RECAS Size Underground Strongs Tank Size Spill Size Underground Strongs Tank Size Operational Ground Water Permit Size. CASE I.D. Number CASE I.D. Number CASE I.D. Number CASE I.D. Number REPARATION WATER STORMSTERS WELL PERMIT TING BUREAU OF WATER SYST & WELL PERMITTING USE I sauance of this permit is subject to the conditions strached. (see next page) Defor monitoring purposes only	10 · 50.	- 120' 28-4 260' 28-5
PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM) NU STATE PLANE COORDINATE BY US SURVEY FEET NORTHING: OR LATITUDE: OR LONGITUDE: OR LONGITUDE: OR LONGITUDE: OR LONGITUDE: OR CASE ID. Number Water and Hexardous Water Permit Sing Operational Erround Water Permit Sing Operational Erround Water Permit Sing Operational Erround Water Permit Sing Operational Erround Water Permit Sing Operational Stronge Thirk Site Operational Erround Water Permit Sing For monitoring purposes only USE Operational Erround Water Permit Sing For monitoring purposes only	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
PROPOSED WELL DOCATION. (NAD IS HORIZONTAL DATUM) TO 0 ##	1 2 3	
PROPOSED WELL TOCATION. (NADES HORIZONIAL DATUM) NI STATE PLANE COORDINATE IN US SURVEY FEET NORTHING: EASTING: LATITUDE: OR LONGITUDE: CARCASTRE Spill Site Underground Storage Think Site Operational Ground Water Permit Site; Operational Ground Water Permit Site; Water Sopply Aquifer Test Observation Well Other (explain) Site Survey Manager Constitution (NADES HORIZONIAL DATUM) NI STATE PLANE COORDINATE IN US SURVEY FEET NORTHING: EASTING: OR LONGITUDE: OR LONGITU		
PROPOSED WELL CATION. (NAD SHORIZONIAL DATUM) NI STATE PLANE COORDINATE IN US SURVEY FEET NORTHING: LATITUDE: OR LATITUDE		
PROPOSED WELL DOCATION. (NAD 83 HORIZONTAL DATUM) NI STATE PLANE COORDINATE IN US SURVEY FEBT NORTHING: EASTING: OR LATITUDE: OR LONGITUDE: INDUSTRING:		
PROPOSED WELL DOCATION. (NAD 83 HORIZONTAL DATUM) NI STATE PLANE COORDINATE IN US SURVEY FEET NORTHING:		
PROPOSED WELL TOCATION (NAD 83 HORIZONTAL DATUM) NI STATE PLANE COORDINATE IN US SURVEY FEET NORTHING: BASTING: OR LATITUDE: COR LATITUDE: COR LATITUDE: COR LATITUDE: COR LATITUDE: COR LONGITUDE:	Conte	
PROPOSED WELL TOCATION (NAD 33 HORIZONTAL DATUM) NJ STATE PLANE COORDINATE IN US SURVEY FEET NORTHING:	7 8 9	
NORTHING: LATITUDE: OR MONITORING WELLS, EECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY HE APPLICANT, PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED: RCRA Site Underground Storage, Think Site I Spill Site Underground Storage, Think Site Operational Ground Water Permit Site Operational Ground Water Permit Site CERCLA (Superfund) Site CASE LD. Number Water Supply Aquifer Test Observation Well Other (explain) I Issuance of this permit is subject to the conditions attached. (see next page) For monitoring purposes only USE USE This Space for Approximate Site WELL PERMIT APPROVE N.J. D.E.P. OCT 4 2006 BUREAU OF WATER SYST 8 WELL PERMITTING	PROPOSED WE	ELL LOCATION (NAD'85 HORIZONTAL DATUM)
LATITUDE: _ O LONGITUDE: _ O LONGITUDE: _ O OR LONGITUDE: _ O LONGITUDE: _ O LONGITUDE: _ O	1/2	
This ZFace for Applicant Please indicate why the wells are being installed: RCRA Site Spill Site ISRA Site Underground Storage Trink Site ISRA Site Operational Ground Water Permit Site CERCLA (Superfund) Site Pretreatment and Residuals Site Water Supply Aquifer Test Observation Well Other (explain) Other (explain) Issuance of this permit is subject to the conditions attached. (see next page) For monitoring purposes only		OR
RCRA Site Underground Storage, Tank Site Underground Storage, Tank Site CERCLA (Superfund) Site CASE LD. Number Water and Hazardous Waste Enforcement Case Water Supply Aquifer Test Observation Well Other (explain) Issuance of this permit is subject to the conditions attached (see next page) For monitoring purposes only		
Underground Storage Tank Site STRA Site Operational Ground Water Permit Site Operational Ground Water Permit Site Pretreatment and Residuals Site Water and Hazardous Waste Enforcement Case Water Supply Aquifer Test Observation Well Other (explain) Issuance of this permit is subject to the conditions attached. (see next page) Strands of this permit is subject to the conditions attached. (see next page) Strands of this permit is subject to the conditions attached. (see next page)	R MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETE HE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:	This Space for Approval Films
Underground Storage Tank Site ISRA Site CERCLA (Superfund) Site Pretreatment and Residuals Site Water and Hazardous Waste Enforcement Case Water Supply Aquifer Test Observation Well Other (explain) Issuance of this permit is subject to the conditions attached. (see next page) Issuance of this permit is subject to the conditions attached. (see next page)	☐ RCRA Site	WELL PERMIT APPROVED
Pretreatment and Residuals Site Water and Hazardous Waste Enforcement Case Water Supply Aquifer Test Observation Well Other (explain) Issuance of this permit is subject to the conditions attached. (see next page) For monitoring purposes only	rangan dan kacamatan	N.J. D.E.P.
Water and Hazardous Waste Enforcement Case Water Supply Aquifer Test Observation Well Other (explain) Issuance of this permit is subject to the conditions attached (see next page) USE		
Water Supply Aquifer Test Observation Well Other (explain) Issuance of this permit is subject to the conditions attached. (see next page) USE USE		ASE I.D. Number OCT 4 2006
Other (explain) Other (explain) BUREAU OF WAIER STOTE & WELL PERMITTING USE USE USE	to the first the second of the	2040267
USE [Issuance of this permit is subject to the conditions attached. (see next page) [For monitoring purposes only		BUREAU OF WATER SYSTEM
USE [
	TICE	For monitoring purposes only
THE PROPERTY OF THE PROPERTY O	EE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS BERMIT	
Date 09/26/26 Signature of Driller 27 a ## Bos 28 A 15 Registration No. 15 37	n compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.	

COPIES: Water Allocation - White Health Dept. - Yellow Owner - Blue Driller - White

Signature of Property Owner_

Well Permit Number 2600080936

MONITORING WELL RECORD

Atlas Sheet Coordinates

		MONITORING V		ecolo		Atlas Sheet Co	ordinates
OWNER IDENTIFICATION	LPARK 1	EDGEWATER LLC	411-15-			261427	73
485 WEST PUT	NAM AVE		 			•	
City Greenwich	•	State Connecti	cut	•	Zip C	ode 06830	
WELL LOCATION - If not th	e same as o	wner please give address	Ow	vner's Well N	o. MW	-54	
County Bergen	_ Municipal	ity Edgewater Boro		Lot No.	1-5 Bloc	k No. 99	•
Address 45 RIVER ROAD I. F	ARK EDGI	EWATER	·	<u> </u>			
WELL USE Monitoring		•	DAT	E WELL STA	ARTED	10-18-06	
						10-18-06	
WELL CONSTRUCTION		Note: Measure all depths	Depth to	Depth to	Diameter	Material	Wgt./Rating
Total Depth Drilled _/ 6	ft.	from land surface	Top (ft.)	Bottom (ft.)	(inches)		(lbs/sch no.)
Finished Well Depth 16	ft.	Single/Inner Casing	0	2	2	PVC	2ch40
Borehole Diameter:		Middle Casing (for triple cased wells only)	·				
Top	in.	Outer Casing					
Bottom	in.	(largest diameter)					
Well was finished: above gra		Open Hole or Screen (No. Used , 0/0)	2	16	2	Prc	sch40
If finished above grade, casing h		Blank Casings					10-10
(stick up) above land surface		(No. Used)	<u> </u>				
S' inrotective casing installed	?	Tail Piece Gravel Pack					
L X No		Grout	\ <u>'</u>	14		Neat Cement	94 lbs
Static Water Level after drilling			0	/		Bentonite	5 lbs
Water Level was Measured Usin		eze	G	routing Metho	od	Granty	
Well was developed for 12	hours		D	rilling Metho	d	HSA	
at 2 gpm					GEOLO	GIC LOG	
Method of development	Jun	<u> </u>			e water was er	ncountered in consolida	ated
Pump Capacity	gpı		form	nations	5' F2	-00	
Pump Type				0.2) <i>[2</i>	<u>u </u>	
Drilling Fluid	Type o	of Rig	_ _	5-16	Fine	tomed ma	we sand
Health and Safety Plan Submitte	ed? XYes	□No					0
Level of Protection used on site	(circle one)	None (D) C B	A				
			-	······			
·				· · · · · · · · · · · · · · · · · · ·			
I certify that I have constructed	the above re	eferenced well in					
accordance with all well permit	t requiremen	ts and applicable State	—				l'
rules and regulations. Drilling Company SUMMIT D	אסוו ז ואום כ	'O INC	-	AS-BI	JILT WEL	L LOCATION	
Well Driller (Print)	YATTING C	//:				NTAL DATUM)	
P-'11er's Signature	no Mus	ma	NJ	STATE PLAN	E COORDI	NATE IN US SUR	VEY FEET
ation No. 3721	24 E	Date 01/65/07	NOR	RTHING:		EASTING:	
	<i>~</i> 13_				OR		_
		•	LATI	TUDE:o_	· · · · · · · · · · · · · · · · · · ·	LONGITUDE: 0	

COPIES:

ORIGINAL: DEP

DRILLER

OWNER

Well Permit Number 2600080937

MONITORING WELL RECORD

OWNED IDENTIFICATION I DADY		VALLE IX	ECORD		Atlas Sheet C	oordinates
	EDGEWATER LLC				<u>261</u> 42	73
485 WEST PUTNAM AVE						
City Greenwich	State Connecti				Code <u>06830</u>	*
WELL LOCATION - If not the same as o	wner please give address	Ov	wner's Well N	io. MW	-5 5	
County Bergen Municipa	lity Edgewater Boro		Lot No.	1-5 Blo	ck No. 99	
Address 45 RIVER ROAD I. PARK EDG	EWATER			•		
WELL USE Monitoring		TO A FIR	TO THE T CO.	A TOMBERS	10 15 00	
		DAT	E METT CO	WDIETE	10-11-00	, '
		DAI	E WELL CO	MILLEIE	010-11-06	
WELL CONSTRUCTION	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to	Diameter	Material	Wgt./Rating
Total Depth Drilledft.	Single/Inner Casing	Top (ii.)	Bottom (ft.)	(inches)		(lbs/sch no.)
Finished Well Depth 12 ft.		0_	2	2	PVC	sch 40
Borehole Diameter:	Middle Casing (for triple cased wells only)					
Top in.	Outer Casing][
Bottomin.	(largest diameter)					
Well was finished: above grade I flush mounted	Open Hole or Screen (No. Used ,010)	2	12	2	Prc	selun
If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used)					I TO TO THE
	Tail Piece					
Steel protective casing installed?	Gravel Pack	1	/2		morie#1	
Static Wester Level of an delling 3	Grout	0	,		Neat Cement	94 lbs
Static Water Level after drilling 3 ft.		U			Bentonite	ibs
Water Level was Measured Using <u>m</u> -2 Well was developed for /2 hours	coze		routing Metho		hovety	······································
at 2 gpm	•	D	rilling Method		HSA	
Method of development	•			GEOLOG	GIC LOG	
P 0	mg	- Note	each depth where	water was en	countered in consolida	nted
Pump Capacity gpi Pump Type	П	, toline		Fill		·
· · · · · · · · · · · · · · · · · · ·	of Rig CM5-75	-				
•		-	5'-12'	Fre +	medaran	sand
Health and Safety Plan Submitted? X Yes Level of Protection used on site (circle one)	□No O				, ,	
Level of Protection used on site (circle one)	None D C B	A		· · · · · · · · · · · · · · · · · · ·		
				······································	-	
•						
I certify that I have constructed the above reaccordance with all well permit requirement rules and regulations.	ferenced well in s and applicable State					
Drilling Company SUMMIT DRILLING C	O INC		AS-BU	ILT WEL	L LOCATION	
Well Driller (Print) John Mu	rHa				NTAL DATUM)	
Driller's Signature		NJ S	STATE PLANI	COORDI	NATE IN US SUR	VEY FEET
F tion No. 721245	Date 01/05/07	NOR'	THING:		EASTING:	
				OR		
	· .	LATIT	TIDE: 0	, ,,	ONICEPPE TO 10	
OPICINAL DEP	hanne i	L		·- ^L	ONGITUDE: 0	
ORIGINAL: DEP	COPIES: DRILLER	₹	OWNER		HFAITH DEE	ADTMENT

OWNER

Well Permit Number 2600080938

MONITORING WELL RECORD

OWNER IDENTIFICATION LPARK	EDGEWATER LLC				Atias Sheet Co	
s 485 WEST PUTNAM AVE						
City Greenwich	State Connecti	cut		Zip C	ode 06830	
WELL LOCATION - If not the same as o	wner please give address	Ov	vner's Well N	Io. MW	-56	•
County Bergen Municipal	ity Edgewater Boro		Lot No.			
Address 45 RIVER ROAD I. PARK EDGI	EWATER '					
WELL USE Monitoring		DAT	rweii et	ADTED	10-24-06	,
					10-24-06	
WELL CONSTRUCTION	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating
Total Depth Drilled 15 ft.	Single/Inner Casing		Bottom (IL)	(moles)	0/6	(lbs/sch no.)
Finished Well Depth / 5 ft.	Middle Casing	0	ک,ا		PVC	ACL 40
Borehole Diameter:	(for triple cased wells only)					
Top $\underline{\boldsymbol{\mathcal{C}}}$ in. Bottom $\underline{\boldsymbol{\mathcal{C}}}$ in.	Outer Casing (largest diameter)					
Well was finished: above grade flush mounted	Open Hole or Screen (No. Used , 0, 20)	3	15	2	PVC	xh40
If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used)					
Steel protective casing installed?	Tail Piece		·			
No	Gravel Pack	2	15		more #7	
Static Water Level after drilling 6 ft.	Grout	\wedge	2		Neat Cement Bentonite	94 lbs 5 lbs
Water Level was Measured Using Tope			4	•	Z A	
Well was developed for / hours			routing Methor rilling Methor		savey	
at 4 gpm	•	Γ			ery year	My J
Method of development		None		GEOLOG		
Pump Capacity gpn	1	l form:	stione		countered in consolida	ted
Pump Type			3-6'a	aslett		
Drilling FluidType of	Rig Reich Dul	0 -			<u> </u>	
Health and Safety Plan Submitted? X Yes	□No	<u>گ</u> ا	-10" H	alone	fill	
Level of Protection used on site (circle one)	None D C B	A 7/4	2-15	Dark	gray sand	trilt
•			Wat	- + <i>i</i>	, , , , , , , , , , , , , , , , , , ,	
			<u> </u>	is an c	<u></u>	
I certify that I have constructed the above rej accordance with all well permit requirements rules and regulations.						
Drilling Company SUMMIT DRILLING CO) INC		AS-BU	ILT WELL	LOCATION	
Well Deiller (Disc)	ha		(NAD 83	HORIZON	TAL DATUM)	
Driller's Signature Lohn Months		NJ S	STATE PLANI	COORDIN	ATE IN US SURV	EY FEET
ation No	Date 01 105107	NOR'	THING:		EASTING:	
				OR		
·		LATIT	UDE:°		ONGITUDE:6_	
ORIGINAL: DEP	COPIES: DRILLER	<u> </u>	OWNER		HEAT TH DED	ADTRANSIM

DRILLER

OWNER

Well Permit Number 2600080939

MONITORING WELL RECORD

Atlac Sheet Coordinates

OWNER IDENTIFICATION LPARK	EDGEWATER LLC			<u>.</u>	261427		
485 WEST PUTNAM AVE							
City Greenwich	State Connection	cut	·	Zip C	ode <u>06830</u>		
WELL LOCATION - If not the same as o	wner please give address	Ov	vner's Well N	o. MW	-57		
County Bergen Municipal	lity Edgewater Boro		Lot No.	1-5 Bloc	k No. 99	•	
Address 45 RIVER ROAD I. PARK EDG	EWATER		_				
WELL USE Monitoring		DAT	E WELL STA	ARTED	10-24-06		
				_	10-24-06		
WELL CONSTRUCTION	Note: Measure all depths	Depth to	Depth to	Diameter	Material	Wgt./Rating	
Total Depth Drilled 15 ft.	from land surface	Top (ft.)	Bottom (ft.)	(inches)		(lbs/sch no.)	
Finished Well Depth/ \sum_ ft.	Single/Inner Casing	0	3	2	PVC	Ad40	
Borehole Diameter:	Middle Casing (for triple cased wells only)						
Top 6 in. Bottom 1.	Outer Casing (largest diameter)					·	
Well was finished: ☐ above grade ☐ flush mounted	Open Hole or Screen (No. Used 020)	3	15	2	PVC	sch 40	
If finished above grade, casing height (stick up) above land surface — ft.	Blank Casings (No. Used)						
or orotective casing installed?	Tail Piece						
No X No	Gravel Pack	2	15		morie#2	211:	
Static Water Level after drilling & ft.	Grout	0	2	-	Neat Cement Bentonite	5 lbs	
Water Level was Measured Using You	l	G	routing Metho	od 🗸	2 avito	/ <u></u>	
Well was developed for hours	•	D	rilling Method	d Û	Rolling		
atgpm	•			GEOLO	GIC LOG		
Method of development	mz		Note each depth where water was encountered in consolidated				
Pump Capacity gp	m	form	formations 0-6 asheb				
Pump Type	0 10	11 -	- Caspan				
	of Rig <u>Rendin</u>	$\underline{\alpha} \mid \underline{\neg}$	-10 A	Liston	n Fill		
Health and Safety Plan Submitted? X Yes Level of Protection used on site (circle one)	□No None (D) C B					178.1	
Level of Protection used on site (circle one)	None LD C B	A 10	1-15	vanting	ray sans	Add -	
			Wan	ex at	6		
		<u>-</u>					
I certify that I have constructed the above re accordance with all well permit requiremen rules and regulations.							
Drilling Company SUMMIT DRILLING C	CO INC				L LOCATION		
Well Driller (Print) John Mu	wtha	272		· · · · · · · · · · · · · · · · · · ·	NTAL DATUM)		
Piller's Signature Isla Marke	h	· •		E COORDI	NATE IN US SURV	EY FEET	
ation No. 32/245	Date 0/ 65/07	NOR	THING:		EASTING:		
				OR			
		LATI	TUDE:°	· "	LONGITUDE:°		

Well Permit Number 2600080940

MONITORING WELL RECORD

Atlas Sheet Coordinates

OWNER IDENTIFICATION I.PARK EDGEWATER LLC 2614273						
485 WEST PUTNAM AVE						
City Greenwich	State Connection	cut		Zip C	ode 06830	
WELL LOCATION - If not the same as or	wner please give address	Ov	vner's Well N	o. MW	-58	
County Bergen Municipal	ity Edgewater Boro		Lot No.			•
Address 45 RIVER ROAD I. PARK EDGI	EWATER					•
WELL USE Monitoring		DAT	E WELL STA	ARTED /	10-12-06	•
					10-12-06	
WELL CONSTRUCTION	Note: Measure all depths	Depth to	Depth to	Diameter	Material	Wgt./Rating
Total Depth Drilledft.	from land surface Single/Inner Casing	Top (ft.)	Bottom (ft.)	(inches)		(lbs/sch no.)
Finished Well Depthft.		0	2	2	PVC	och 40
Borehole Diameter:	Middle Casing (for triple cased wells only)					
Top in.	Outer Casing					
Bottom in.	(largest diameter) Open Hole or Screen					
Well was finished: above grade After the finished in the fini	(No. Used .610)	2	13	2	PVC	sch40
If finished above grade, casing height (stick up) above land surface — ft.	Blank Casings (No. Used)				·	
Strol protective casing installed?	Tail Piece					
No No	Gravel Pack	<u> </u>	/3		morio41	
Static Water Level after drilling 3 ft.	Grout	O	l		Neat Cement Bentonite	57 lbs 5 lbs
Water Level was Measured Using M	G	routing Metho	nd A	1 so inter	JI	
Well was developed for /2 hours		•	rilling Metho		SA	
at gpm				GEOLOG	GIC LOG	
Method of development	ng	- Note	e each depth when		countered in consolid	ated
Pump Capacitygp		formations 0-5' Fill				
Pump Type			<u> </u>	T	<u>u</u>	
	of Rig CME - 75	_	5-13'	Fane +	med gray	said
Health and Safety Plan Submitted? Yes	□No	_			0 0	
Level of Protection used on site (circle one)	None D C B	A -			· · · · · · · · · · · · · · · · · · ·	
		<u></u>			·	
					· · · · · · · · · · · · · · · · · · ·	
I certify that I have constructed the above re accordance with all well permit requiremen rules and regulations.						
Drilling Company SUMMIT DRILLING C	O INC				L LOCATION	
Well Driller (Print) John My	rtha	ATT			NTAL DATUM)	
Driller's Signature hand Mark	to the second se	İ		E COOKDI	NATE IN ÚS SUR	VEY FEET
ation No	Date <u>01 /05/07</u>	NOR	RTHING:		EASTING:	
				OR		
•		LATI	TUDE:0_		LONGITUDE: 0	''

COPIES:

DRILLER

OWNER

HEALTH DEPARTMENT

Well Permit Number 2600080941

MONITORING WELL RECORD

Atlas Sheet Coordinates

OWNER IDENTIFICATION LPARK EDGEWATER LLC 2614273						
485 WEST PUTNAM AVE						
City Greenwich	State Connecti	cut		Zip C	ode 06830	
WELL LOCATION - If not the same as o	wner please give address	Ow	vner's Well N	o. Mu	-59	
County Bergen Municipal	lity Edgewater Boro		Lot No.	1-5 Bloc	k No. 99	
Address 45 RIVER ROAD I. PARK EDG	EWATER	·	_			
WELL USE Monitoring		DAT	E WELL STA	ARTED	10-11/06	
					10-11-04	
WELL CONSTRUCTION	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Total Depth Drilled /3 ft.	Single/Inner Casing	Top (IL)	2	(mones)	7000	
Finished Well Depth (3) ft.	Middle Casing	_0_	7		PVC	sch40
Borehole Diameter:	(for triple cased wells only)					
Top in.	Outer Casing (largest diameter)					
Bottom in.	Open Hole or Screen					
Well was finished: above grade flush mounted	(No. Used 010)	2	13	2	PIC	sd 40
If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used)		·			
	Tail Piece					
Small protective casing installed?	Gravel Pack		/3		mone #!	
Static Water Level after drilling 3 ft.	Grout	0	1		Neat Cement Bentonite	94 lbs 5 lbs
Water Level was Measured Using M-72	ge	G	routing Metho	nd .	Marie To	
Well was developed for /2 hours			rilling Method		15A	
at2_ gpm				GEOLO	GIC LOG	
Method of development	mg			<u>_</u>	countered in consolida	ited
Pump Capacity gp	m ′	form	formations $\hat{G} - 5' \text{ Fill}$			
Pump Type			0.3	ine	***************************************	
	of Rig CME-75	-	5-13	Frit.	toredary	sorel
Health and Safety Plan Submitted? Yes	□No				10	
Level of Protection used on site (circle one)	None (D) C B	A	· · · · · · · · · · · · · · · · · · ·			
I certify that I have constructed the above re accordance with all well permit requiremen rules and regulations.						
Drilling Company SUMMIT DRILLING O	O INC				L LOCATION	
Well Driller (Print) John Ma					NTAL DATUM)	
Driller's Signature hah Work	Lu	l		E COORDI	NATE IN US SUR	VEY FEET
ation No. 52/249	Date 0/ 05/07	NOR	THING:		EASTING:	
	-			OR		
		LATI	TUDE:0_	_'	LONGITUDE: 0	'

COPIES:

DRILLER

OWNER

HEALTH DEPARTMENT

Well Permit Number 2600081159

Atlas Sheet Coordinates

MONITORING WELL RECORD

OWNER IDENTIFICATION I. PARK				261427	73			
485 WEST PUTNAM AVE	•							
Greenwich	State Connecti	cut		Zip C	ode 06830			
WELL LOCATION - If not the same as o	wner please give address	Ov	vner's Well N	io. Mh	1-60			
County Bergen Municipa	lity Edgewater Boro		Lot No.					
Address 45 RIVER ROAD								
WELL USE Monitoring		DAT	E WELL STA	ADTEN	10-19-0	,		
noning in the second				-	10-19-06			
					77-06			
WELL CONSTRUCTION	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)		
Total Depth Drilled 15 ft.	Single/Inner Casing	()	2	2	Dicc			
Finished Well Depthft.	Middle Casing	0		2	FVC	Ach 40		
Borehole Diameter:	(for triple cased wells only)							
Top in. Bottom in.	Outer Casing (largest diameter)							
	Open Hole or Screen							
Well was finished: above grade If the flush mounted	(No. Used , 0(0)	2	15	2	Prc	sch 40		
If finished above grade, casing height	Blank Casings (No. Used)							
(stick up) above land surface ft.	Tail Piece					<u> </u>		
Steel protective casing installed?	Gravel Pack		15					
No No	Grout		/3		Neat Cement	94 lbs		
Stade Water Level after drilling 3 ft.		0		·	Bentonite	_5_ lbs		
Water Level was Measured Using	ge	G	routing Meth	od	Gravity			
Well was developed for hours		D	rilling Metho	d	HSA			
at gpm		GEOLOGIC LOG						
Method of development	ung	Note	each depth when	e water was er	countered in consolida	nted		
Pump Capacity gp	m	IOTH	ations $O-5$	Fi	00	ĺ		
Pump Type	en: OLE 7-							
Drilling Fluid Type of Health and Safety Plan Submitted? XYes	of Rig <u>CM 5 - 75</u> □No		5'-15	Film	e, + med			
Level of Protection used on site (circle one)	_ ^	A -	grossy	son	d			
(Home by C B							
	•							
		-						
I certify that I have constructed the above re accordance with all well permit requirement			· · · · · · · · · · · · · · · · · · ·					
rules and regulations.	as and approved state							
Drilling Company SUMMIT DRILLING C	O INC				L LOCATION			
Well Driller (Print) John Mur	the	NI			NTAL DATUM) NATE IN US SUR			
Driller's Signature with M	rutho	1		E COORDI		VEY FEET		
ation No. 3 \$1245	Date 01/15/07	NOR	THING:		EASTING:			
				OR		Í		
		LATI	rude:o_	_ ' ''	LONGITUDE: 0			

COPIES:

DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

ρ
Name of Owner:
Name of Facility: NATIONAL RE SOURCES
Location: 45 RIVER ROAD EDGEWATER, NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number:
(This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-72
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73 59 34 6" Latitude: North 40 48 10.7"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 111823 East 632492
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIMEL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: NAUD 1988 EL = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individual immediately responsible for obtaining the information, I believe the submitted information is true accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE
WAYNE W. BURGETT 4531654 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
177 F. (LINTON) ST (11400) IT 20217 (DEC) ARIAGOT

Well Permit Number 2600080942

MONITORING WELL RECORD

Atlas Sheet Coordinates

OWNER IDENTIFICATION I.PARK	EDGEWATER LLC				26142	73	
485 WEST PUTNAM AVE							
City Greenwich	State Connection	State Connecticut Zip Code 0			_		
WELL LOCATION - If not the same as owner please give address $% \left(\mathbf{r}\right) =\left(\mathbf{r}\right) $			vner's Well N				
County Bergen Municipa	lity Edgewater Boro	·	Lot No.	1-5 Bloc	k No. 99		
Address 45 RIVER ROAD I. PARK EDG	EWATER		_				
WELL USE Monitoring		DAT	E WĖLL STA	ARTED	0-17-06		
				_	10-17-06		
WELL CONSTRUCTION Total Depth Drilled 7 ft.	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)	
Total Depth Drilled ft. Finished Well Depth ft.	Single/Inner Casing	0	2	1	PVC	sch 80	
Borehole Diameter:	Middle Casing				7.0	Tool 30	
Top 5 in.	(for triple cased wells only)						
Bottom 5 in.	Outer Casing (largest diameter)						
Well was finished: above grade flush mounted	Open Hole or Screen (No. Used ,010)	2	7	1	Prc	280	
If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used)						
	Tail Piece				·		
Steel protective casing installed? No	Gravel Pack	1	7		hories!		
Static Water Level after drillingft.	Grout	0	1		Neat Cement Bentonite	57 lbs 1bs	
Water Level was Measured Using			Frouting Metho	.d	M = 9	<u> </u>	
Well was developed for — hours			orilling Metho		151	y	
at gpm					SIC LOG		
Method of development		- Note	GEOLOGIC LOG Note each depth where water was encountered in consolidated				
Pump Capacitygp	m		nations		,	. 1	
Pump Type					m/sand		
Drilling Fluid Type o	of Rig <i>Blogrobe 6 b</i>	<u>as</u> —	gras	me 1	r. Peat		
Health and Safety Plan Submitted? Yes	□No						
Level of Protection used on site (circle one)	None D C B	A					
•							
				-			
I certify that I have constructed the above re accordance with all well permit requirement rules and regulations.							
Drilling Company SUMMIT DRILLING C	CO INC	:			L LOCATION		
Well Driller (Print) Joe Ne	ri	277		· · · · · · · · · · · · · · · · · · ·	NTAL DATUM)		
Driller's Signature	ri.	1		E COORDI	NATE IN US SUR	VEY FEET	
tration No. Mw 24437	Date 0/105107	NOF	RTHING:	OR	EASTING:		
		LATI	TUDE:0_		LONGITUDE:0	·	

COPIES:

ORIGINAL: DEP

DRILLER

OWNER

Well Permit Number 2600080943

MONITORING WELL RECORD

Atlas Sheet Coordinates

OWNER IDENTIFICATION I.PAR	K EDGEWATER LLC	·			261427	73
485 WEST PUTNAM AVE			······································		1 0.6000	
City Greenwich	State Connection				ode <u>06830</u>	
WELL LOCATION - If not the same as			vner's Well N			
	pality Edgewater Boro		Lot No.	1-5 Bloc	k No. 99	
Address 45 RIVER ROAD I. PARK ED	GEWATER		_			
WELL USE Monitoring		DAT	E WÈLL STA	ARTED	10-16-00	
		DAT	E WELL CO	MPLETE	10-16-04	
WELL CONSTRUCTION	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Total Depth Drilled ft. Finished Well Depth ft.	Single/Inner Casing	B	2	1	PVC	sch 40
Finished Well Depth ft. Borehole Diameter:	Middle Casing					Joen vo
	(for triple cased wells only)			·		
Top <u>5</u> in. Bottom 5 in.	Outer Casing (largest diameter)					
Well was finished: above grade flush mounted	Open Hole or Screen (No. Used 010)	2	7	/	PVC	sely10
If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used)					
	Tail Piece					
Ster' protective casing installed?	Gravel Pack		7		morio 41	
Static Water Level after drilling 3 ft.	Grout	Ó	1		Neat Cement Bentonite	44 lbs 5 lbs
Water Level was Measured Using	<u> </u>		Frouting Meth	od A	Carata	-JL
Well was developed for hours			Drilling Metho		154	
at gpm				GEOLO	GIC LOG	
Method of development		Not	e each depth whe		ncountered in consolid	ated
Pump Capacity	gpm	form	nations	160	h w loa	1 ,
Pump Type	,	_ -	0-)	SARI	h w/sa	dul_
Drilling Fluid Ty	pe of Rig <u>Legrobe lea</u>	100 —	grow	<u> </u>	r. Peas	
Health and Safety Plan Submitted? X	es No	-				
Level of Protection used on site (circle o	ne) None (D) C B	A				
		_				
I certify that I have constructed the abov accordance with all well permit require	ve referenced well in ments and applicable State					
rules and regulations.	a ao 1910		AS-B	UILT WEI	L LOCATION	
Drilling Company SUMMIT DRILLIN	•				ONTAL DATUM	
	eri	NJ	STATE PLAN	VE COORD	INATE IN US SUR	VEY FEET
Driller's Signature	MALLON ALLONS	NO	RTHING:		_ EASTING:	
tration No.	124437 Date 01/05/07			OR		
		LAT	ITUDE:0_	· · · · · ·	LONGITUDE:	'

COPIES:

DRILLER

OWNER

HEALTH DEPARTMENT

Well Permit Number 2600080944

MONITORING WELL RECORD

Atlas Sheet Coordinates

OWNER IDENTIFICATION I	.PARK_EDO	GEWATER LLC				261427	3			
Ad 485 WEST PUTNAM AVE City Greenwich State Connecticut					7in C	ode 06830				
WELL LOCATION - If not the same as owner please give address				vner's Well N	_					
	• •	Edgewater Boro		Lot No.	1-5 Bloc	k No. 99				
Address 45 RIVER ROAD I. PAR	K EDGE WA	AIEK		_						
WELL USE Monitoring			DAT	E WELL STA	ARTED _	10-16-06				
			DAT	E WELL CO	MPLETE <u>I</u>	16-16-06	•			
WELL CONSTRUCTION Total Depth Drilled		ote: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)			
	Ī	Single/Inner Casing	0	2	1	PVC	sch40			
Finished Well Depth Sorehole Diameter:		Middle Casing					Janto			
	n. (fo	r triple cased wells only)								
	n.	Outer Casing (largest diameter)								
Well was finished: above grade	d (Open Hole or Screen No. Used . 6/0	2	8	1	Prc	sh 40			
If finished above grade, casing heigh (stick up) above land surface	nt a	Blank Casings No. Used)								
	- ***	Tail Piece								
Steel protective casing installed?		Gravel Pack		8	 	mone#1	- CH ::			
Static Water Level after drilling 3	ft.	Grout	0	1		Neat Cement Bentonite	94 lbs 5 lbs			
Water Level was Measured Using		,	(Frouting Metho	od /	Salista	JL			
Well was developed for hou	0			Orilling Method		HSA	· · · · · · · · · · · · · · · · · · ·			
at gpm					GEOLO	GIC LOG				
Method of development			- Not	Note each depth where water was encountered in consolidated						
Pump Capacity	gpm		form	nations (D.	ch w/sam	1.1			
Pump Type		an 1 6 c	-	graves	OF TIC	Part	201			
Drilling Fluid		is Deopolable	06 -	gravis	- - e	1 2 2 0				
Health and Safety Plan Submitted?		□No								
Level of Protection used on site (cir	cle one)	None (D) C B	^							
										
I certify that I have constructed the accordance with all well permit req rules and regulations.	above refere uirements a	enced well in nd applicable State								
Drilling Company SUMMIT DRIL	LING CO I	NC				L LOCATION				
Well Driller (Print)		~1				NTAL DATUM)				
Driller's Signature	Mar				E COORDI	NATE IN US SUR	VEY FEET			
Faction No. MW244	137	Date 01 /05/07	NOI	RTHING:		_ EASTING:				
		- · · 		•	OR					
			LAT	ITUDE:o_	'	LONGITUDE:0	''			

OWNER

Well Permit Number 2600080945

MONITORING WELL RECORD

	MONITORING W	ELL R	ECORD		Atlas Sheet Co	ordinates	
OWNER IDENTIFICATION I.PARK EDGEWATER LLC						2614273	
485 WEST PUTNAM AVE							
City Greenwich	State Connection	cut		Zip C	ode 06830		
WELL LOCATION - If not the same as o	wner please give address	0	wner's Well N	o. DB	-4		
County Bergen Municipa			Lot No.				
Address 45 RIVER ROAD I. PARK EDG							
WELL USE Monitoring	1	DA	TE WËLL STA	ARTED	10-16-06		
					16-16-04		
WELL CONSTRUCTION	Note: Measure all depths	Depth to	Depth to	Diameter	Material	Wgt./Rating	
Total Depth Drilledft.	from land surface	Top (ft.)		(inches)		(lbs/sch no.)	
Finished Well Depth 4. ft.	Single/Inner Casing	0	2	/	Pre	sol 40	
Borehole Diameter:	Middle Casing	·					
Top in.	(for triple cased wells only) Outer Casing						
Bottom 5 in.	(largest diameter)						
Well was finished: above grade	Open Hole or Screen (No. Used ,0/0)	2	1	,	PVC	sch 40	
In flush mounted	Blank Casings				712	HOL W	
If finished above grade, casing height (stick up) above land surface — ft.	(No. Used)						
Sternrotective casing installed?	Tail Piece						
s No	Gravel Pack	1	<u> </u>	1	monet !	<i>8</i> 4	
Static Water Level after drilling 3 ft.	Grout	0	1		Neat Cement Bentonite	lbs lbs	
Water Level was Measured Using My	c rel	IL	Grouting Metho	od /	May 340		
Well was developed for hours	3070		Drilling Metho		+5A		
at gpm					CIC LOG		
Method of development		\No	GEOLOGIC LOG Note each depth where water was encountered in consolidated				
Pump Capacitygp	om		mations	A	,		
Pump Type		_	016	3/A	ch milsan	d/	
Drilling Fluid Type	of Rig <u>Leopvole l</u>	600 -	w	1 gra	rel		
Health and Safety Plan Submitted? Yes	□No 7	-		- 	 		
Level of Protection used on site (circle one)	None (D) C B	A					
		_					
		-					
I certify that I have constructed the above r	referenced well in	-					
accordance with all well permit requirement rules and regulations.	nts and applicable State	_					
Drilling Company SUMMIT DRILLING	CO INC				L LOCATION		
Well Driller (Print) 30e Ne.	n				NTAL DATUM)		
Driller's Signature West Mrs.				E COORD	NATE IN US SUR	VEY FEET	
tration No. MW 2443 7	Date 0/05/07	NO	RTHING:		EASTING:		
, , , , , , , , , , , , , , , , , , , ,				OR			
		LAT	TTUDE:0_	_''	LONGITUDE:0	· "	

Well Permit Number 2600080946

MONITORING WELL RECORD

		MONITO	RING M	/ELI	L KI	CORD		Atlas Sheet Co	ordinates
OWNER IDENTIFICATION	I.PARK I	EDGEWATER I	LC					261427	23
AL 485 WEST PUTN	NAM AVE					·			
City Greenwich		State	Connection	cut		······································	Zip Co	ode <u>06830</u>	
WELL LOCATION - If not the	e same as ov	vner please give	address		Ои	ner's Well N	o. <u>DB</u>	5-5	
County Bergen		ity Edgewater				Lot No.	l-5 Bloc	k No. 99	
Address 45 RIVER ROAD I. P.	ARK EDGE	WATER							
		<u>-</u>			D 4 (ID)		DTED	10-17-04	
WELL USE Monitoring								10-11-04	
				,	UA II	e well co	WIT LE LEL	, , , , , , ,	
WELL CONSTRUCTION	:	Note: Measure a			th to (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Total Depth Drilled	_ ft.	Single/Inner		TOP	(10.)	Dottom (i.e.)	(1101100)		
Finished Well Depth	_ ft.				<u> </u>	_2		PVC	sh.40
Borehole Diameter:		Middle Ca (for triple cased v			•				
Top 5	in.	Outer Cas					<u> </u>		
Bottom 5	in.	(largest diar							
Well was finished: above gra		Open Hole or (No. Used , C	Screen	2		っ	1	PVC	sel 46
flush mou		Blank Cas							sar co
If finished above grade, casing he (stick up) above land surface		(No. Used)	<u> </u>					
-		Tail Pie	ce						
Structure casing installed?		Gravel P			<u></u>	7		move # 1	
Static Water Level after drilling	3 ft.	Grout		6	2	1		Neat Cement Bentonite	99 lbs 5 lbs
Water Level was Measured Usin		nel		JL	G	routing Metho	nd L	La Fa	
Well was developed for						rilling Metho		A	
at gpm				٦				GIC LOG	
Method of development				}	Note	each denth wher		acountered in consolid	ated
Pump Capacity	gpı	n.				nations		^	, ,
Pump Type						<u>9-7 /:</u>	lach	m/s sugar	wl
Drilling Fluid	Туре с	f Rig Hegy	sochle	00		geone	CTr	Peat.	
Health and Safety Plan Submitte		□No							
Level of Protection used on site	(circle one)	None D	C B	A					
		•							
I certify that I have constructed	the above re	eferenced well in							
accordance with all well permit	requiremen	ts and applicable	e State						
rules and regulations.				l		A C IDI	III T WEI	L LOCATION	
Drilling Company SUMMIT D	RILLING C	O INC						IL LOCATION ONTAL DATUM	1
Well Driller (Print)	2 C 1)ev)			NJ	······································		INATE IN US SUR	
Driller's Signature	re N	ur-				RTHING:		EASTING:	
tration No	2443	7 Date 01	105107				~		
							OR	_	, ,
					LAT	TUDE:°_		LONGITUDE: 0	
ORIGINAL: DEP		COPIES:	DRILLE	ER		OWNER	 }	HEALTH DE	PARTMENT

STATE OF NEW JERSEY TRENTON, NJ

- Ya 2000
26 1263041
31/20130 vic

Mail To:	WELL PERMIT Permit No.
NJDEP BUREAU OF WATER ALLOCATION PO BOX 426 VALID ONLY AFTER AF	PPROVAL BY THE D.E.P.
TRENTON, NJ 08625-0426	COORD#: O' ()
Owner I Park Edgenster LLC	Driller SUMMIT DRILLING CO., INC.
Address 485 West Puthin Ave	Address Bound Brook, NJ 08805
Name of Facility I. Pu, K Edgrafter	Diameter 2 Proposed 2
Address 45 River Road	of Well(s) Inches Depth of Well(s) Feet 8 of Wells Will pumping equipment
	Applied for (max. 10) be utilized? YES NO YES Type of Well If Yes, give pump
Edgragta NJ 1020	(see reverse) Neg. (c) capacity cumulative GPM OF WELL(S)
State Atlas Map No. 248	marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.
1 2 3	180° MW-62
OF THE STATE OF TH	rye.
7 8 9 200'	¥ 22 N 4
PROPOSED WI NU STATE	ELL LOCATION (NAD 83 HORIZONTAL DATUM) PLANE COORDINATE IN US SURVEY FEET
NORTHING:	EASTING:
LATTTUDE: _ O _	OR LONGITUDE: Q "
FOR MONITORING WELLS, RECOVERY WELLS, OR PREZOMETERS, THE FOLLOWING MUST BE COMPLETE THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED: RCRA Site	This Opace for Approval Daning
☐ Underground Storage Tank Site	WELL PERMIT APPROVED
Operational Ground Water Permit Site CERCLA (Superfund) Site	N.J. D.E.P.
Pretreatment and Residuals Site C. Water and Hazardous Waste Enforcement Case	ASE LD. Number
Water Supply Aquifer Test Observation Well	40267 JAN 26 2007
Other (explain)	BUREAU OF WATER SYSTEMS
FOR Issuance of this permit is subject to the conditions attached. (see next page) D.E.P. USE G	& WELL PERMITTING
VERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT. diance with N.J.S.A.SS:4A-14, application is made for a permit to drill a well as described above.	

Signature of Driller Signature & Property Owner Medit

Registration No.

COPIES: Water Allocation - White Health Dept. - Yellow Owner - Blue Driller - White

Well Permit Number 2600082060

MONITORING WELL RECORD

Atlas Sheet Coordinates

CER IDENTIFICATIO	N I. PARK	EDGEWATER	LLC				26142	73
Address 485 WEST P	UTNAM AVEN	UE						
City Greenwich		State	Connection	cut	Zip Code 06830			
WELL LOCATION - If no	t the same as ov	ner please giv	e address	Ow	ner's Well N	io. MW	-61	
County Bergen	Municipali	ty Edgewater	Boro		Lot No.	1 Bloc	k No. 99	
Address 45 RIVER ROAD								
WELL USE Monitoring				DAT	E WELL STA	ARTED A	61-31-07	
							01-31-07	
WELL CONSTRUCTION		Note: Measure from land s		Depth to	Depth to	Diameter	Material	Wgt./Rating
Total Depth Drilled	<u> </u>	Single/Inner		Top (ft.)	Bottom (ft.)	(inches)		(lbs/sch no.)
Finished Well Depth	2 <u>f</u> t.			0	2	2	Prc	ach 40
Borehole Diameter:		Middle Ca (for triple cased						
Тор	in.	Outer Car						
Bottom	<u>8</u> in.	(largest dia				<u></u>	l	
Well was finished: ☐ above ☑ flush		Open Hole of (No. Used	10)	2	12	2	Prc	sch 40
If finished above grade, casis (stick up) above land surface	ng height	Blank Cas (No. Used	sings)					
•		Tail Pie	:ce					
Stral protective casing instal	lled?	Gravel P	ack	1	12		sand+2	
es No Static Water Level after drill	ling 7 ft.	Grout		B	1		Neat Cement Bentonite	5 lbs
Water Level was Measured							<u> </u>	97 . **
Well was developed for	. •	-			routing Methorilling Metho		llow Ate	Though
at/ gpm				ــــــــــــــــــــــــــــــــــــــ	Titling Mculo		- V	rayer
Method of development	slm	e					GIC LOG	
Pump Capacity	gpn				each depth when ations		ncountered in consolid	
Pump Type					2-12'	Blac	be selled	sand
Drilling Fluid	Type o	f Rig	21	<u> </u>		fill_		
Health and Safety Plan Subr		□No		_		· · · · · · · · · · · · · · · · · · ·		
Level of Protection used on	_	None 6	C B	$_{A} $ —				
	`		•					
								
I certify that I have construct accordance with all well per rules and regulations.				_				
Drilling Company SUMMI	T DRIT I NIG O	O INIC			AS-BI	UILT WEL	L LOCATION	
Well Driller (Print)	LA D. 1	O IIVO					NTAL DATUM	<u> </u>
Driller's Signature	WI KAGIB	7 / -		NJ	STATE PLAN	E COORDI	NATE IN US SUR	VEY FEET
Pristration No.	TANY Y	Day 42	11 60 10	NOR	THING:		EASTING:	
Constitution	4/3/1	Date <u>0_3</u>	1707			OR	_ 	
				LATI	TUDE:º		LONGITUDE:º	
ORIGINAL: DEP		COPIES:	DRILLE	`R	OWNER	!	HEALTH DE	PARTMENT

Well Permit Number 2600082061

MONITORING WELL RECORD

Atlas Sheet Coordinates

C ER IDENTIFICATION	I. PARK	EDGEWATER LLC						261427	3
Address 485 WEST PUTN	IAM AVEN								
City Greenwich		State <u>Con</u>	nectic	ut				ode <u>06830</u>	•
WELL LOCATION - If not the					Ow	ner's Well N	o. MW	-62	
County Bergen	Municipal	ity Edgewater Boro	·		_ ·	Lot No.	I Bloc	k No	
Address 45 RIVER ROAD						-			
WELL USE Monitoring	·							01-31-07 51-31-07	
WELL CONSTRUCTION		Note: Measure all de from land surface		Depti Top (Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Total Depth Drilled	_ ft.	Single/Inner Casin	g	B		2	2	PVC	4240
Finished Well Depth Borehole Diameter:	_ 11.	Middle Casing (for triple cased wells	only)						
Top 8 Bottom . 8	in. in.	Outer Casing (largest diameter))						
Well was finished: above gra		Open Hole or Scre (No. Used 010	en)	2	·	16	2	Puc	sch40
If finished above grade, casing he (stick up) above land surface	eight	Blank Casings (No. Used)						
		Tail Piece		<u> </u>					
protective casing installed?		Gravel Pack				16		Neat Cement	39 lbs
Static Water Level after drilling	7 ft.	Grout		0		1		Bentonite	lbs
Water Level was Measured Usin	g Tage				G	routing Meth		gray	
Well was developed for!	hours				D	rilling Metho	d Holi	low Aten	auger
at gpm							GEOLO	GIC LOG	
Method of development	sun	<i></i>		— [e each depth whe	re water was e	ncountered in consolid	lated
Pump Capacity	gp	m					lachs	ilt ton	O Lill
Pump Type	T	of Rig <u>666</u>	\wedge						
Drilling Fluid Health and Safety Plan Submitte		No □No		-		5'-16'	mead	ownst	
Level of Protection used on site			В	A					
	` '			l					
				Ì	******				
I certify that I have constructed accordance with all well permit	the above t	eferenced well in uts and applicable Sta	ite						
rules and regulations.	, 04	upp		ļ					-
Drilling Company SUMMIT D	RILLING	CO INC						LL LOCATION ONTAL DATUM)
Well Driller (Print)	H Ka	66			NJ	STATE PLA	NE COORD	inate in us sui	RVEY FEET
Driller's Signature	A YCA	Date 52/11		,	NOI	RTHING:		_ EASTING:	
vistration No.	71_	Date <u>6.3//4</u>	7				OR		
					LAT	ITUDE:°_		LONGITUDE:	''

COPIES:

ORIGINAL: DEP

DRILLER

OWNER

Well Permit Number 2600082062

MONITORING WELL RECORD

Atlas Sheet Coordinates

A TO THE PROPERTY OF THE PARTY.	EDGEWATER LLC				261427	3
d					201.12.	· · ·
City Greenwich	State Connection	eut		Zip Co	de 06830	
			ner's Well N	o M.W-	-63	
WELL LOCATION - If not the same as of	lity Edgewater Boro		Lot No.			
	my Eugewater Boro					
Address 45 RIVER ROAD	The second secon					
WELL USE Monitoring				_	31-31-07	
		DAT	E WELL CO	MPLETEL	01-31-07	
WELL CONSTRUCTION	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Total Depth Drilled 12 ft.	Single/Inner Casing		2	2	PVC	sd 40
Finished Well Depth 12 ft.	Middle Casing					
Borehole Diameter:	(for triple cased wells only)					
Top in. Bottom & in.	Outer Casing (largest diameter)					
Well was finished: above grade	Open Hole or Screen					, .
Well was liftished. ☐ above grade Street S	(No. Used 010)	2	12	2	Prc	ach 40
If finished above grade, casing height (stick up) above land surface — ft.	Blank Casings (No. Used)					
	Tail Piece		<u> </u>	<u> </u>		<u> </u>
protective casing installed?	Gravel Pack		12_		Neat Cement	94 lbs
Static Water Level after drilling 7 ft.	Grout	0	1		Bentonite	5 lbs
Water Level was Measured Using Tou	e		Frouting Meth	od &	revited	
Well was developed for hours			Orilling Metho		Clar Aten 1	lugh
at gpm				GEOLO	GIC LOG	
Method of development	2	- Not	te each depth whe		ncountered in consolid	lated
Pump Capacityg	pm	forr	mations 12	0. 1	do soil	1:01
Pump Type		_0)-15 D	COCK DAS	AN SHOW	file_
Drilling FluidType	of Rig	_				
Health and Safety Plan Submitted? Ayes						
Level of Protection used on site (circle one	None (D) C B	^ —				
I certify that I have constructed the above accordance with all well permit requireme rules and regulations.	referenced well in ents and applicable State	-				
•	CO NC		AS-B	UILT WEI	LL LOCATION	
Drilling Company SUMMIT DRILLING Well Driller (Print) M.H Raab					ONTAL DATUM	`
Well Driller (Print) Matt Cadb Driller's Signature Matt Touch	/	N.	J STATE PLA	NE COORD	INATE IN US SUI	RVEY FEET
ristration No. $5/577$	Date 03 11410	NO	RTHING:		_ EASTING:	
, addition 140. 373 []	Date 4 7 11 [10]			OR		
•		LAT	TITUDE:0		LONGITUDE:	o '
ORIGINAL : DEP	COPIES: DRILL	FR	OWNE	 R	HEALTH DI	EPARTMENT

DWR-133M 6/04

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION TRENTON, NJ

26	C	ζ	į	1353
			3. 4 . (_m .	

Mail To:	ING WELL PERMIT Permit No
VALID ONLY AFTE	R APPROVAL BY THE D.E.P.
BUREAU OF WATER ALLOCATION PO BOX 426 TRENTON, NJ 08625-0426	coord#: \$6.14.27?
uner I Park EDGEWATER	Driller QUARTE DRIVER DE MA
Idress 485 West Pitram AVE	SUMMIT DRILLING CO. INC.
Greenwich CT 06830	Danual Dan at MI ACACE
me of Facility Former Uniterer Facil	1
Idress 45 Kiver Road	# of Wells Will pumping equipment be utilized? WES NO
Edjewater	Type of Well (see reverse) Min 1 1 C / capacity cumulative GPM
	ION OF WELL(S)
tate Atlas Map No	Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.
1 40 • 50 · 1 a c -	400 WARA
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	The same of the sa
	9MN65 300'
1 2 3	- OMV
1	(33)
	@ M WIN
4 5 6	1001
	AIN
	Mx168 120- 100 8 M
7 1 8 3 9	RUER ROAD
PROPOS	SED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ NJ	STATE PLANE COORDINATE IN US SURVEY FEET
NORTHING: _	OR EASTING:
LATITUDE:	_o'" LONGITUDE:o'"
OR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE CO	OMPLETED BY This Space for Approval Drame
IE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED: RCRA Site	WELL PRIMIT AFRICO
RCRA Site Spill Site Underground Storage Tank Site ISRA Site	The Mark Difference of the Control o
Operational Ground Water Permit Site	and) Site
Pretreatment and Residuals Site	MAY 1 7 2007
■ Water and Hazardous Waste Enforcement Case	CASE I.D. Number
☐ Water Supply Aquifer Test Observation Well	BURFAU DE VIATER DES
Other (explain)	& WHATELE ATTEN
lssuance of this permit is subject to the conditions attached. (see next.ps.	age). O' For monitoring purposes only
SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.	
to compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.	
Date Signature of Driller // VAV	Thur bot Registration No. 51577

COPIES: Water Allocation - White

Well Permit Number 2600083531

MONITORING WELL RECORD

Atlan Chast Coardinates

	MONITORING V	VELL R	ECURD		Atlas Sheet Co	ordinates
WNER IDENTIFICATION I PA	ARK EDGEWATER				261427	3
485 WEST PUTNAM A	AVE					
City Greenwich	State Connecti	cut	·	Zip C	ode <u>06830</u>	
WELL LOCATION - If not the same	as owner please give address	O	wner's Well N	o. <u>Mh</u>	1-64	
County Bergen Muni	icipality Edgewater Boro		Lot No.	1 Bloc	k No. 96-100	
Address 45 RIVER ROAD FORMER	UNILEVER FACILITY					
WELL USE Monitoring		DAT	E WELL STA	ARTED	6-5-07	
					6-5-07	
WELL CONSTRUCTION	Note: Measure all depths	Depth to	Depth to	Diameter	Material	Wgt./Rating
Fotal Depth Drilled /7 ft.	from land surface	Top (ft.)		(inches)	Widterial	(lbs/scb/no.)
Finished Well Depth 17 ft.	Single/Inner Casing	0	2	2	PVC	40
Borehole Diameter:	Middle Casing (for triple cased wells only)					
Top 8 in.	Outer Casing					
Bottom in.	(largest diameter)					
Well was finished: above grade	Open Hole or Ccreen (No. Used / ()	2	17	2	PVC	40
If flush mounted	Blank Casings				7 00	
If finished above grade, casing height (stick up) above land surface ft.	(No. Used)					
Ster otective casing installed?	Tail Piece					
□ No	Gravel Pack	1	17	8	#/.Sancx Neat Cement	00 15
Static Water Level after drilling 3	Grout ft.	0	1	8	Bentonite	20 lbs 5 lbs
Water Level was Measured Using $\underline{\omega}$	XI	(Grouting Metho	od T	remi	
Well was developed for <u>4</u> hours			Orilling Metho		BA	
at 2 gpm		Г		GEOLO	GIC LOG	
Method of development	<u> </u>	Not	te each depth when		ncountered in consolid	ated
Pump Capacity	_ gpm		mations		CHE C.	
Pump Type		-)-10 Gara	Fill	CMF-Si	10
Drilling FluidT	ype of Rig <u>13-59</u>	_	<u> </u>	sar	es a by ww	<u>uu x</u>
Health and Safety Plan Submitted?	Yes No	10	2-15 1	3lac	L EMFS	rel
Level of Protection used on site (circle	one) None (D) C B	A	-grave	e		
·		1 7	5-17 - 1	eet	· · · · · · · · · · · · · · · · · · ·	
		-	3-1 1 - 1		_	
I certify that I have constructed the abo	ove referenced well in					
accordance with all well permit requir- rules and regulations.		-	· · · · · · · · · · · · · · · · · · ·	 		
Drilling Company SUMMIT DRILLI	NG CO INC		AS-BI	JILT WEI	L LOCATION	
Well Driller (Print) Jeffceu	Seacaves				ONTAL DATUM	
Drillar's Signature	Dannes	į		E COORD	INATE IN US SUR	VEY FEET
Relation No.	Date 6/5/07	NO	RTHING:		_ EASTING:	
_				OR		
		LAT	TTUDE:0	· · ·	LONGITUDE: 0	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Well Permit Number 2600083532

MONITORING WELL RECORD

Atlas Sheet Coordinates

HEALTH DEPARTMENT

WNER IDENTIFICATION I PARK I	EDGEWATER				261427	3
dd 485 WEST PUTNAM AVE Greenwich	State Connection	eut	· · · · · · · · · · · · · · · · · · ·	Zip Co	ode 06830	
VELL LOCATION - If not the same as ov	vner please give address	Ow	vner's Well N	o. <u>Mu</u>	1-65	
County Bergen Municipal	ity Edgewater Boro		Lot No.	1 Bloc	k No. 96-100	
Address 45 RIVER ROAD FORMER UNI	LEVER FACILITY	<u> </u>	_		1	
WELL USE Monitoring			E WELL STA E WELL CO		701212	
WELL CONSTRUCTION Fotal Depth Drilled 14 ft.	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/scb no.)
	Single/Inner Casing	0	a	2	PVC	40
Finished Well Depth 19 ft. Borehole Diameter:	Middle Casing				1 0	
Top in.	(for triple cased wells only)			·		
Bottom g in.	Outer Casing (largest diameter)					
Well was finished: above grade	Open Hole of Screen (No. Used ,/O)	2	14	2	PVC	40
If finished above grade, casing height (stick up) above land surface () ft.	Blank Casings (No. Used)		·			
Stem otective casing installed?	Tail Piece				1000	<u> </u>
No	Gravel Pack Grout	,	14	8	# / San Q Neat Cement	
Static Water Level after drilling 4 ft.	Olou.	0	1	8	Bentonite	5 lbs
Water Level was Measured Using WC		G	routing Metho	od T_i	remi	
Well was developed for hours		D	Drilling Metho	d <u>H</u>	SA	
at <u>2</u> gpm Method of development Sub-	•			GEOLO	GIC LOG	
			e each depth when	re water was er	ncountered in consolida	ated
Pump Capacity gp	m)-/0 /	3 last	ish gray	CMF
Drilling Fluid Type o	of Rig B-59		Sands	Lgra	vel	
Health and Safety Plan Submitted? XYes		_ _				
Level of Protection used on site (circle one)	_	$A = \frac{10}{\alpha}$	0-14	DUMU Dans C	land t	mico
10101 01 1 101001011 HDD			2100 7	my -	ony an	<u> </u>
		_				
	A 1 11 5	-		,		
I certify that I have constructed the above re accordance with all well permit requirement rules and regulations.						
Drilling Company SUMMIT DRILLING C	CO INC				L LOCATION	
Well Driller (Print) Jeffcey	zeg caves	NI	·		ONTAL DATUM) INATE IN US SUR	
Dri'' r's Signature	nosh			(E CUURD		.VEIFEEL
Restration No. 55 16991	Date 6/6/07	NUI	RTHING:		_ EASTING:	
				OR		
		LATI	ITUDE:0_	· · ·	LONGITUDE:º	

COPIES:

ORIGINAL: DEP

DRILLER

OWNER

Well Permit Number 2600083533

MONITORING WELL RECORD

Atlas Sheet Coordinates

HEALTH DEPARTMENT

	EDGEWATER				261427	3
485 WEST PUTNAM AVE City Greenwich	State Connection	cut		Zip C	ode 06830	
WELL LOCATION - If not the same as o	-		vner's Well N			
	ity Edgewater Boro		Lot No.	1 Bloc	k No. 96-100	
Address 45 RIVER ROAD FORMER UNI	LEVER FACILITY	. ,	-	•		
WELL USE Monitoring			E WELL STA E WELL CO		6-6-07	
WELL CONSTRUCTION Total Depth Drilled/ft.	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch ho.)
Finished Well Depth /5 ft.	Single/Inner Casing	D	2	2	PUC	40
Borehole Diameter:	Middle Casing (for triple cased wells only)					
Top δ in. Bottom δ in.	Outer Casing (largest diameter)					
Well was finished: ☐ above grade ☐ flush mounted	Open Hole of Screen (No. Used (V)	2	15	2	PVC	40
If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used)					
Stee otective casing installed?	Tail Piece			8	4180	
□ No	Gravel Pack Grout		15	0	# / Same	/5 lbs
Static Water Level after drilling 4 ft.		0	/	8	Bentonite	5 lbs
Water Level was Measured Using WLI Well was developed for 4 hours	_		Frouting Methorilling Methor		remie 15A	
at 2 gpm	· ·		/Illing Ivicuio		GIC LOG	
Method of development Sul		Note	e each denth whe		ncountered in consolid	ated
Pump Capacitygp	m	form	nations		_	
Pump Type	•	—	<u>0-10</u>	Stach	il Gray	CME
Drilling Fluid Type of	of Rig <u>B-59</u>	_ -	Sando	and	grane	
Health and Safety Plan Submitted? XYes	□No _	17	0-15	some '	to organic	٥
Level of Protection used on site (circle one)	None (D) C B	A _	gray c	lory a	+ 151	
I certify that I have constructed the above re accordance with all well permit requirement rules and regulations.						
Drilling Company SUMMIT DRILLING C	CO INC				L LOCATION ONTAL DATUM	_
Well Driller (Print) Tellicey	Segraves	N.I			INATE IN US SUR	
Driller's Signature	Senger	ļ	RTHING:		EASTING:	
Restation No. 316991	Date 6/6/07		······································	OR	_ EMULIAG	
		LAT	ITUDE:°		LONGITUDE:	

COPIES:

DRILLER

OWNER

Well Permit Number 2600083534

MONITORING WELL RECORD

Atlas Sheet Coordinates

OWNER IDENTIFICATION I PARK	EDGEWATER				261427	
485 WEST PUTNAM AVE						
City Greenwich	State Connecti	cut		Zip Co	ode <u>06830</u>	
VELL LOCATION - If not the same as o	wner please give address	Ov	vner's Well N	o. <u>Mu</u>	J-67	
County Bergen Municipa	lity Edgewater Boro		Lot No.	1 Bloc	k No. 96-100	
Address 45 RIVER ROAD FORMER UN	ILEVER FACILITY					
WELL USE Monitoring			E WELL STA		6-5-07	
		DAT	E WELL CO	MPLETE <u>I</u>	6-5-07	
WELL CONSTRUCTION	Note: Measure all depths	Depth to	Depth to	Diameter	Material	Wgt./Rating
Fotal Depth Drilled 12 ft.	from land surface	Top (ft.)	Bottom (ft.)	(inches)		(lbs/sch ho.)
Finished Well Depth ft.	Single/Inner Casing	0	2	2	PVC	_90_
Borehole Diameter:	Middle Casing (for triple cased wells only)					
Top 🌋 in.	Outer Casing					
Bottom in.	(largest diameter)					
Well was finished: above grade	Open Hole of Screen (No. Used)	2	12	2	PUC	40
If finished above grade, casing height	Blank Casings					
(stick up) above land surface — ft.	(No. Used)					
Stern otective casing installed?	Tail Piece					
□ No No	Gravel Pack Grout		12		# 2Sand Neat Cement	94 lbs
Static Water Level after drilling 4 ft.			l		Bentonite	5 lbs
Water Level was Measured Using Tape	_	G	routing Metho	d Tr	remie	
Well was developed for hours			rilling Metho		SA	
at / gpm	•		 	GEOLOG	GIC LOG	
Method of development Suk				e water was en	countered in consolida	ted
Pump Capacity gp	m		ations	la 1	+ gray S	ill
Pump Type	1 116		200	W /Fi	11 (Cha Dire	and
	of Rig <u>Seoprate lebb</u>		voort e	tc.		
Health and Safety Plan Submitted? Yes Level of Protection used on site (circle one)	□No · None D C B	A -	· · · · · ·			
Level of Frotection used on site (chele one)	Morre (D) C P	A .//	-12. M	eadour	Max	
		—				 -
I certify that I have constructed the above re accordance with all well permit requiremen rules and regulations.				· · · · · · · · · · · · · · · · · · ·		
Drilling Company SUMMIT DRILLING C	O INC				L LOCATION	
11	aab				NTAL DATUM)	
Drill-r's Signature Musik	J	}		E COORDI	NATE IN US SURV	EY FEET
R. Tation No. 516991	Date 6/5/07	NOR	THING:		EASTING:	
				OR	•	
		LATI	TUDE:0_		LONGITUDE: 0	' "

Well Permit Number 2600083535

MONITORING WELL RECORD

Atlas Sheet Coordinates

OWNER IDENTIFICATION I PARK	EDGEWATER				261427	′3	
485 WEST PUTNAM AVE							
City Greenwich	State Connection	cut		Zip Co	ode <u>06830</u>		
WELL LOCATION - If not the same as o	wner please give address	Ov	vner's Weli N	o. <u>MU</u>	1-68		
County Bergen Municipa	ality Edgewater Boro		Lot No.	1 Bloc	k No. 96-100		
Address 45 RIVER ROAD FORMER UN	ILEVER FACILITY						
WELL USE Monitoring			E WELL STA	-	6-6-07		
WELL CONSTRUCTION Total Double Drilled 17	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/scpno.)	
Total Depth Drilled $\frac{12}{2}$ ft. Finished Well Depth $\frac{12}{2}$ ft.	Single/Inner Casing		2	Q	PVC	40	
Borehole Diameter:	Middle Casing (for triple cased wells only)					10	
Top in. Bottom in.	Outer Casing (largest diameter)						
Well was finished: ☐ above grade ☐ flush mounted	Open Hole of Screen (No. Used 10)	2	12	2	Puc	40	
If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used)						
Ster otective casing installed?	Tail Piece						
Diective casing installed?	Gravel Pack Grout	1	12	8"	H Sand Neat Cement	/E lhe	
Static Water Level after drilling 4 ft.	Grout	0	/	8"	Bentonite	15 lbs lbs	
Water Level was Measured Using 6017 Well was developed for 6 hours			Frouting Metho		remi SD		
at 2 gpm			Allimie Ivionio		CIC I OC		
Method of development Sul-		Note	GEOLOGIC LOG Note each depth where water was encountered in consolidated				
Pump Capacity gr	om	form	nations	eclelis	LBrown !		
	of Rig <u>B·57</u>	- <u>-</u>					
Health and Safety Plan Submitted? Yes Level of Protection used on site (circle one)		A	o-12 Si and gray	ane je Clay	to Organi gollo	<u> </u>	
I certify that I have constructed the above raccordance with all well permit requirement rules and regulations.							
Drilling Company SUMMIT DRILLING	CO INC			•	L LOCATION (NTAL DATUM)		
	iraves	NJ		 	INATE IN US SUR		
Driller's Signature	<u> </u>	i	RTHING:		EASTING:		
Remation No. 1546991	Date 6/6/07			OR	_ EASIE10		
		LATI	TUDE:°_	· "	LONGITUDE: 0	· · · · · · · · · · · · · · · · · · ·	

Well Permit Number 2600083536

MONITORING WELL RECORD

2600083536
Atlas Sheet Coordinates

HEALTH DEPARTMENT

OWNER

WNER IDENTIFICATION I PARK I	EDGEWATER				261427	3
485 WEST PUTNAM AVE						
City Greenwich	State Connection	ut		Zip Co	ode <u>06830</u>	
VELL LOCATION - If not the same as ov	wner please give address	Ow	ner's Well N	o. Mu	1-69	
	ity Edgewater Boro		Lot No.	1 Bloc	k No. 96-100	
Address 45 RIVER ROAD FORMER UNI	LEVER FACILITY					
TITLE Monitoring		DATI	- ENNETT STA	PTFD	6/5/07	
WELL USE Monitoring					6/6/07	
						Free Action
WELL CONSTRUCTION	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Total Depth Drilled 15 ft.	Single/Inner Casing	7	2	2	PUC	40
Finished Well Depthft.	Middle Casing				FUC	70
Borehole Diameter:	(for triple cased wells only)					
Top δ in. Bottom δ in.	Outer Casing (largest diameter)					
Well was finished: above grade	Open Hole of Screen				2110	
Ilush mounted	(No. Used .10)	\mathcal{L}	15	2	PUC	40
If finished above grade, casing height	Blank Casings (No. Used)					
(stick up) above land surface ft.	Tail Piece					
Steer otective casing installed? No	Gravel Pack		15	8	#1Sang	
Static Water Level after drilling 3 ft.	Grout	O	1	8	Neat Cement Bentonite	20 lbs 5 lbs
Water Level was Measured Using WLI		1	Frouting Meth	od 7	remi	JL
Well was developed for hours			orilling Metho		48A	
at 2 gpm					GIC LOG	
Method of development Sub-		Note	e each depth whe		ncountered in consolid	ated
Pump Capacitygp	m ·	form	nations		Black CM	
Pump Type	0 50	_4)-10 Subt. S	and o	succe.	
	of Rig_B-59	_ _				
Health and Safety Plan Submitted? Yes	□No.		5-15 C	ME S	Ity Sandst	peate
Level of Protection used on site (circle one)	None D C B	A				
	,					
I certify that I have constructed the above raccordance with all well permit requirement						
rules and regulations.	из ини иррноионе выне					
Drilling Company SUMMIT DRILLING C	CO INC				LL LOCATION ONTAL DATUM	,
Well Driller (Print) Jeff-rey See	graves	N.I			INATE IN US SUR	
Driller's Signature	7 us	l	RTHING:		EASTING:	
R ation No. 5/6991	Date 6/6/6		······································	OR	_ 243011110	
			_	UK		, , ,
		LAT	ITUDE:°_		LONGITUDE:0	

COPIES:

ORIGINAL: DEP

DRILLER

Well Permit Number 2600083816

MONITORING WELL RECORD

Àtlas Sheet Coordinates

R IDENTIFICATION I-PARK					261427	73
Add 485 WEST PUTNAM AVE. City Greenwich	State Connection	cut		Zip Co	ode 06830	
WELL LOCATION - If not the same as ov		***	vner's Well N Lot No.	o. <u>M</u> U		
Address 45 RIVER ROAD FORMER UNI						
WELL USE Monitoring			– E WELL STA E WELL CO	_	6-7-07	
WELL CONSTRUCTION Total Depth Drilled 15 ft.	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Finished Well Depthft.	Single/Inner Casing	0	a	a	PVC	40
Borehole Diameter:	Middle Casing (for triple cased wells only)					
Top X in. Bottom in.	Outer Casing (largest diameter)					
Well was finished: ☐ above grade ☐ flush mounted	Open Hole or Screen (No. Used . 10)	2	15	2	PVC	40
If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used)					
St otective casing installed?	Tail Piece					
☐ res ☒ No	Gravel Pack Grout		15	8	#/Sand Neat Cement	
Static Water Level after drilling 1. ft.		0	1	8	Bentonite	lbs
Water Level was Measured Using WLI Well was developed for //2 hours	_		Frouting Methorilling Metho	2	lacecl	· · · · · · · · · · · · · · · · · · ·
at 2 gpm			Minnig Mento			· · · · · · · · · · · · · · · · · · ·
Method of development Sub		Not	a arch danth wha		GIC LOG ncountered in consolid	leted
Pump Capacity gpi Pump Type	m O	form	nations	-ill	CMF Brow	
Drilling Fluid Type o	of Rig <u>13-59</u>	_ -	Black	Silty	sand gra	ve/
Health and Safety Plan Submitted? XYes	□No					
Level of Protection used on site (circle one)	None (D) C B	A 7	0-15' Horgan	Same iss	to gnay C	lay
I certify that I have constructed the above re accordance with all well permit requiremen rules and regulations.						
Drilling Company SUMMIT DRILLING C	O INC				L LOCATION	
Well Driller (Print) Jeff Segr	aves	N.I			ONTAL DATUM INATE IN US SUR	
Dra's Signature		NO	RTHING:	555100	EASTING:	
Registration No. 216991	Date <u>6/8/07</u>	.		OR		
	* 1	LAT	ITUDE:0_	l 11	LONGITUDE:	

COPIES:

DRILLER

OWNER

HEALTH DEPARTMENT

New Jersey Department of Environmental Protection Bureau of Water Allocation

Well Permit Number 2600083817

MONITORING WELL RECORD

Atlas Sheet Coordinates

OWNER IDENTIFICATION I-PARK	EDGEWATER, LLC				261427	<u>'3</u>
Add 485 WEST PUTNAM AVE	•					
City Greenwich	State Connection	cut		Zip C	ode <u>06830</u>	
WELL LOCATION - If not the same as o	wner please give address	O	wner's Well N	o. Mu	1-71	
County Bergen Municipa	lity Edgewater Boro				k No. 96-100	
Address 45 RIVER ROAD FORMER UN	ILEVER FACILITY		_			
WELL USE Monitoring		DAT	E WELL ST	ARTED	6-7-07	
				_	06-7-07	
WELL CONSTRUCTION	Note: Measure all depths from land surface	Depth to		Diameter	Material	Wgt./Rating
Total Depth Drilled 29 ft.	Single/Inner Casing	Top (ft.)	-	(inches)	044	(lbs(sch)no.)
Finished Well Depthft.		0	2	2	PVC	40
Borehole Diameter:	Middle Casing (for triple cased wells only)			ļ		
Top in. Bottom in.	Outer Casing (largest diameter)					
Well was finished: above grade Aflush mounted	Open Hole or Screen (No. Used • / O)	2	24	Q	PVC	40
If finished above grade, casing height (stick up) above land surface — ft.	Blank Casings (No. Used)					
	Tail Piece					
Steep otective casing installed?	Gravel Pack	1	24	8	#1Band	
Static Water Level after drilling 4 ft.	Grout	0	,	8	Neat Cement Bentonite	10 lbs 5 lbs
Water Level was Measured Using WLI	_	J	Grouting Meth	od F	laced	
Well was developed for //> hours			Drilling Metho		ISA	
at 2 gpm					GIC LOG	
Method of development Sub		No	te each depth whe		ncountered in consolid	ated
Pump Capacitygp	m	for	mations			_
Pump Type	0 50		C^{-10}		CMF BI	<u> </u>
Drilling Fluid Type	of Rig <u>B-59</u>	_ -	Clay M	Med 1	gravel	
Health and Safety Plan Submitted? Yes	□No		10-20	same	CMF.	Brownist
Level of Protection used on site (circle one)	None (D) C B	A _	Black	Sand	s, gran	ul
		-	20'-24'	mer	Clar Do	100.000
				709	9,00	www.
I certify that I have constructed the above r accordance with all well permit requirementules and regulations.						
Drilling Company SUMMIT DRILLING (CO INC				L LOCATION	
- ~	raves	 <u>-</u>			NTAL DATUM)	
Dries Signature				E COORD	INATE IN US SUR	VEY FEET
Regardation No. J16991	Date 6/8/07	NO	RTHING:		_ EASTING:	
				OR		
		LAT	TTUDE:0_	_''	LONGITUDE:0	''

COPIES:

ORIGINAL: DEP

DRILLER

OWNER

HEALTH DEPARTMENT

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

TRENTON, NJ

Mail To:

GZA

MONITORING WELL PERMIT

260008381	6
Permit No	

P	
EAU OF WATER SYST	EMS
AND WELL PERMITTING	
PO BOX 426	

AND WELL PERMITTING PO BOX 426	VALID ONLY AFTER A	PPROVAL BY THE D.E.P.	24000 4 8820
TRENTON, NJ 08625-0426		COORD #:	26 .14 .273
Owner I - Park Edgen. Address 485 West Put	nam Ave	Address	IMIT DRILLING CO., INC. 9W Chimney Rock Road ound Brook, NJ 08805
Name of Facility Farmer Und Address 45 River RA Lagrange W		Diameter of Well(s) # of Wells Applied for (max. 10) Type of Well (see reverse) Mon. 10	Inches Depth of Well(s) Will pumping equipment be utilized? If Yes, give pump capacity Cumulative GPM
	LOCATION	OF WELL(S)	
State Atlas Map No. 26		marked distan	well(s) nearest roads, buildings, etc. with ces in feet. Each well MUST be labeled me and/or number on the sketch.
1 2 3 1 5 6 0 7 5 8 9	PROPOSED T	WELL LOCATION (NAD 83 HORIZ TE PLANE COORDINATE IN US SI EASTING: OR LONGITUDE	ZONTAL DATUM) URVEY FEET
FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETT THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BE RCRA Site Underground Storage Tank Site Operational Ground Water Permit Site	ING INSTALLED: Spill Site ISRA Site		WELL PERMIT APPROVED N.J. D.E.P.
Operational Ground Water Permit Site Pretreatment and Residuals Site	CERCLA (Superfund) Si	ис	JUN 1 2 2007
☐ Water and Hazardous Waste Enforcement Case	E 3	CASE I.D. Number	BUREAU OF WATER SYSTEMS
☐ Water Supply Aquifer Test Observation Well ☐ Other (explain)		UU 7 W/Ce	& WELL PERMITTING
R Issuance of this permit is subject to the L.P. USE SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING In compliance with N.J.S.A.58:4A-IA, application is made for a period to the latest the lat	G TO THIS PERMIT.	For monitoring purposes only	Registration No.

Signature of Property Owner M. C.

COPIES: Water Systems & Well Permitting - White Health Dont - Volland

New Jersey Department of Environmental Protection Bureau of Water Allocation

Well Permit Number 2600083818

MONITORING WELL RECORD

Atlas Sheet Coordinates

HEALTH DEPARTMENT

DWNER IDENTIFICATION I-PARK I	EDGEWATER, LLC				261427	3
Add 485 WEST PUTNAM AVE.						
City Greenwich	State Connection				ode <u>06830</u>	
WELL LOCATION - If not the same as ov	vner please give address	Ov	vner's Well N	o. Mu	1-72	
County Bergen Municipal	ity Edgewater Boro				k No. 96-100	
Address 45 RIVER ROAD FORMER UNI	LEVER FACILITY					
WELL USE Monitoring		DAT	E WELL STA	ARTED _	6-8-07	
		DAT	E WELL CO	MPLETE <u>D</u>	6-8-07	
WELL CONSTRUCTION	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/scb no.)
Total Depth Drilledft. Finished Well Depth	Single/Inner Casing	$\overline{\Omega}$	2	2	PVC	40
Finished Well Depth / S ft. Borehole Diameter:	Middle Casing					
Top lo in.	(for triple cased wells only)				11	<u> </u>
Bottom in.	Outer Casing (largest diameter)					
Well was finished: above grade Aflush mounted	Open Hole or Screen (No. Used	ュ	15	ス	PVC	40
If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used)					
	Tail Piece					
Steep otective casing installed?	Gravel Pack Grout		/5		Morre Neat Cement	94 lbs
Static Water Level after drilling 3 ft.	Gioui	0	/		Bentonite	5 lbs
Water Level was Measured Using H-Score	ze	C	Frouting Meth	od Po	avity	
Well was developed for hours		Γ	Orilling Metho	d <u> </u>	3A	
at 3 gpm				GEOLO	GIC LOG	
Method of development Sul				re water was er	ncountered in consolid	ated
Pump Capacity gpr	n		nations カニノ	book	L Cloon	204
Pump Type	At 1 A 1 mm		gra			
	of Rig Shoprobe 1000	_ _	0			
Health and Safety Plan Submitted? Yes	□No	.				
Level of Protection used on site (circle one)	None (D) C B	^A —				
			<u></u>			
I certify that I have constructed the above re accordance with all well permit requiremen rules and regulations.		_				
Drilling Company SUMMIT DRILLING C	O INC				LL LOCATION ONTAL DATUM)	,
Well Driller (Print) Joseph 10	ec.	N.I			INATE IN US SUR	
Dri''s Signature		ĺ	RTHING:		EASTING:	
Regulation No. Mw24437	Date 6/8/07			OR		
		LAT	ITUDE:o_		LONGITUDE: 0	, ¹ , , , , , , , , , , , , , , , , , ,

COPIES:

ORIGINAL: DEP

DRILLER

OWNER

Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD EDGEWATER, NJ
Case Number(s): (UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number:
(This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-51 A
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 13°59' 27.4" Latitude: North 40°48' (4.5"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 718216 East 633 642
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIM EL .= 10.00 (NGVD1929): CONVERTEDTO
Significant observations and notes: HAUD 1988 EL = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE
WAYNE W. BURGETT 4531654 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST. CLAYTON, NJ 08312 (856) 881-8477

Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD EDGEWATER , NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-52 A
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 13°59′ 24.8" Latitude: North 40°48′ 14.7"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 718233 East 633242
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHALE RIM EL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: NAUD 1988 EL = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE 7/24/67 DATE
WAYNE W. BURGETT 4531454 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST. CLAYTON, NJ 08312 (856) 881-8477

Name of Owner:
Name of Facility: NATIONAL RE SOURCES
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s): (UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-53 A
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73° 59′ 23.7″ Latitude: North 40° 48′ 13.9″
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 718155 East 633331
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIM EL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: NAUD 198B EL = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE
WAYNE W. BURGETT 4531454 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477

Name of Owner:
Name of Facility: NATIONAL RE/Sources
Location: 45 RIVER ROAD EDGEWATER, NJ
Case Number(s): (UST #, ISRA #, Incident #, or EPA #) LAND SURVEYOR'S CERTIFICATION
Well Permit Number: (This number must be permanently affixed to the well casing.) (2A-107
Owners Well Number (As shown on application or plans): MW-54
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73°59'32.7" Latitude: North 40°48'107"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 717829 East 632634
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIM EL .= 10.00 (NGVD 1929): CONVERTED TO
f^{-1}
Significant observations and notes: NAUD 1988 EL.= 8.95'
f^{-1}
Significant observations and notes: NAUD 1988 EL.= 8.95'
Significant observations and notes: NAUD 1988 EL.= 8.95' AUTHENTICATION I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false
Significant observations and notes: NAUD 1988 EL.= 8.95' AUTHENTICATION I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
AUTHENTICATION I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. SEAL

Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s): (UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-55
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73°59′31.1″ Latitude: North 40°48′13.4″
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 718098 East 632760
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.) SANITARY MANHALE RIMEL. = 10.00'(NGVD1929): CONVERTED TO Significant observations and notes: HAUD 1988 EL. = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE 11/29/06 DATE
WAYNE W. PURGETT 4531454 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST. CLAYTON, NJ 08312 (856) 881-8677

Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD EDGEWATER, NJ
Case Number(s): (UST #, ISRA #, Incident #, or EPA #) LAND SURVEYOR'S CERTIFICATION
Well Permit Number: (This number must be permanently affixed to the well casing.) GA-97 Owners Well Number (As shown on application or plans):
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73°59'31.2" Latitude: North 40°48' 12.9"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 718051 East 632754
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIMEL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: HAUD 1988 EL.= 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE 11/29/06 DATE
WAYNE W. BURGETT 4531454 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST. CLAYTON, NJ 08312 (BSG) 881-8677

Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD, EDGEWATER, JJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #) LAND SURVEYOR'S CERTIFICATION
Well Permit Number: (This number must be permanently affixed to the well casing.) 62A - 129
Owners Well Number (As shown on application or plans): MW-57
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73°59'79.7" Latitude: North 40°48'12.2"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 117974 East 632867
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIMEL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: NAUD 1988 EL = 8.95'
Significant observations and notes: <u>HAUD 1988 EL.= 8.95'</u>
Significant observations and notes:
Significant observations and notes:
AUTHENTICATION I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. SEAL
AUTHENTICATION I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. SEAL
AUTHENTICATION I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. SEAL

Name of Owners
Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #)
Well Permit Number:
(This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-58
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73°59'32.0" Latitude: North 40°48'12.8"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North <u>718035</u> East <u>632693</u>
North
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.) SANITARY MANHALE RIMEL. = 10.00'(NGVD1929): CONVERTED TO
Significant observations and notes: <u>HAUD IGBB</u> EL = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE 1 29 0 6 DATE
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E CLINTON ST CLAYTON JT 0830 (RSG) 881-8677

Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD EDGEWATER, NJ
Case Number(s): (UST #, ISRA #, Incident #, or EPA #) LAND SURVEYOR'S CERTIFICATION
Well Permit Number: (This number must be permanently affixed to the well casing.) GZA- 138
Owners Well Number (As shown on application or plans): MW-59
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73°59'28.0" Latitude: North 40°48'13.3"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 718086 East 632998
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIMEL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: NAUD 198B EL. B. 95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE 11/29/06 DATE
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST. CLAYTON, NJ 08312 (BSG) 881-8677

Name of Owner:
Name of Facility: NATIONAL RE/Sources
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-60
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73°59'31.8" Latitude: North 40°48'05.5"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 717306 East 632708
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.) SANITARY MANHOLE RIMEL. = 10.00'(NGVD1929): CONVERTED to
Significant observations and notes: NAUD 1988 EL.= 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individual immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE 1 29 06 DATE
WAYNE W. PURCIETT US31454 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST CLAYTON. JT 08317 (RSG) 881-8677

		•							
Name of Owner	:						· · · · · · · · · · · · · · · · · · ·		
Name of Facility	y:	NATION	AL RE	Soul	SES			,	
Location:	45 R	IVER R	DAD FOR	newa:	TER, >	17_			
Case Number(s	s):				(UST	#, ISRA	.#, Incid	ent #, or	EPA#)
LAND SURVEYOWN Well Permit Nur		ERTIFICAT	ON				.`		
(This number m	nust be	permanent	ly affixed to	the we	II casing.)	٠		·	· · · · · · · · · · · · · · · · · · ·
Owners Well Nu	umber (As shown (on application	n or p	ans):	-	Mu	1-61	
Geographic Cod	ordinat	e NAD 83 (t	o nearest 1/	10 of se	econd):				
Longitude:	West_	13559	34.6"	•	Latitude:	North	400	18'03	.د"
New Jersey Sta	ite Plan	e Coordina	tes NAD 83 t	o near	est 10 feet	:			
	North _	71710	<u> 7 د</u>			East_	632	495	·
Elevation of Tor reference mark			cap off) at				13.00) ′	· .
Source of eleva datum is used,	ition da identify	tum (bench here, assu	mark, numb me datum o	er/des f 100',	cription ar	nd eleva pproxin	tion/date	um. If an tual elev	on-site
SANITARY		•							
Significant obse	,								
						<u> </u>			
AUTHENTICATI	ION.								
l certify under p submitted in thi immediately res accurate and co information inc	is docu sponsib omplete	ment and a le for obtai . I am awa	ll attachmen ning the info re that there	ts and rmatio are sid	that, base n, I believ mificant p	d on my e the su enalties	y inquiry Ibmitted	of those informat	e individuals tion is true,
	SEAL		·						
WIT	12					2(-	21/0	1	
PROFESSIONAL	L LAND	SURVEYO	R'S SIGNAT	URE		DATE	E '		
PROFESSIONAI (Please prin	L LAND	SURVEYO		ND LIC	CSY ENSE NU	MBER		· ·	
120 E	دانان	+x\ <	C (1144	Lva	ってん	18317	/RS	WARI	- 6677

Name of Owner:
Name of Facility: NATIONAL RE Sources
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #) LAND SURVEYOR'S CERTIFICATION
Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-62
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 13°59'35,4" Latitude: North 40°48'08.8"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 717628 East 632432
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 8.24'
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIM EL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: <u>NAUD 1988</u> EL = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE Z/ Z/ 67 DATE
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST. CLAYTON, NJ 08312 (BSG) 881-8477

Name of Owner:
Name of Facility: NATIONAL RE/Sources
Location: 45 RIVER ROAD EDGEWATER, NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number:
(This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-43
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73° 59′ 33.5″ Latitude: North 40° 48′ 10.2″
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 717769 East 632578
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.) SANITARY MANHALE RIMEL = 10.00'(NGVD1929): CONVERTED TO Significant observations and notes: NAUD 1988 EL = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE
DATE
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST (LAYTON) + DRZIZ (OSI) ARLACAZ

Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD EDGEWATER NJ
Case Number(s): (UST #, ISRA #, Incident #, or EPA #) LAND SURVEYOR'S CERTIFICATION
Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-64
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73°59'32.7" Latitude: North 46°48' 11.9"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 717950 East 632638
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIMEL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: <u>HAUD 1988</u> EL.= 8.95'
Organicant observations and notes. NACO 1486 EC. 8.75
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE WALLE W BURGETT US 316.54
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST CLAYTON. NT ORZID (RSG) ARI-8677

Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD EDGEWATER, NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number:
(This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-65
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 13°59'34.2" Latitude: North 40°48'13.4"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 118093 East 63 2522
North 118093 East 43 2522 Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 8.95
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIMEL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: NAUD 1988 EL = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST. CLAYTON, NJ 08312 (BSG) 881-8677

Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #) LAND SURVEYOR'S CERTIFICATION
Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans):
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 13°59'35.4" Latitude: North 4°48'13.7"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 718124 East 132 429
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIM EL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: NAUD 198B EL = 8,95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE
WAYNE W. BURGETT 4531454 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST. CLAYTON, NJ 08312 (BSG) 881-8677

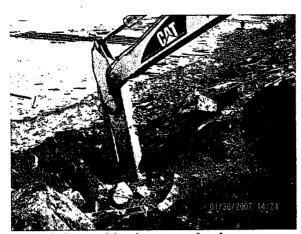
Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-67
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73°59'35.9" Latitude: North 40°48' 13.7"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 118131 East 632393
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIMEL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: <u>HAUD IGBB</u> EL.= 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE 7/24/07 DATE
WAYNE W. BURGETT 4531454 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST., CLAYTON, NJ 08312 (856) 881-8477

Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-68
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 13 59 34.9 Latitude: North 40 48 14.94
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 118252 East 632465
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIMEL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: HAUD 1988 EL = 8.95'
AUTHENTICATION
AUTHENTICATION I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. SEAL PROFESSIONAL LAND SURVEYOR'S SIGNATURE Date
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. SEAL

Name of Owner:
Name of Facility: NATIONAL RE SOURCES
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s): (UST #, ISRA #, Incident #, or EPA #) LAND SURVEYOR'S CERTIFICATION
Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-69
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 73°59'30.6" Latitude: North 40°48'15.0"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 118261 East 632806
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIM EL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: NAUD 1988 EL = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE 7/24/07 DATE
WAYNE W. BURGETT 4531454 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST. CLAYTON, NJ 08312 (BSG) 881-8677

Name of Owner:
Name of Facility: NATIONAL RE/SOURCES
Location: 45 RIVER ROAD, EDGEWATER, NJ
Case Number(s):(UST #, ISRA #, Incident #, or EPA #)
LAND SURVEYOR'S CERTIFICATION Well Permit Number:
(This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-70
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 13°59' 32.6" Latitude: North 40° 48' 10.2"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 717778 East 632645
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIMEL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: NAUD 1988 EL = 8,95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE 7 24 67 DATE
WAYNE W. PURGETT US31454 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
137 F. CLINTAN SE (114.) 1+ man (000) 901 1002

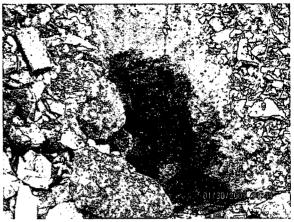
Name of Owner:
Name of Facility: NATIONAL RE/Sources
Location: 45 RIVER ROAD EDGEWATER NJ
Case Number(s): (UST #, ISRA #, Incident #, or EPA #) LAND SURVEYOR'S CERTIFICATION
Well Permit Number: (This number must be permanently affixed to the well casing.)
Owners Well Number (As shown on application or plans): MW-71
Geographic Coordinate NAD 83 (to nearest 1/10 of second):
Longitude: West 13°59' 33.3" Latitude: North 40°48' 03.8"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:
North 117126 East 632595
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)
SANITARY MANHOLE RIMEL = 10.00 (NGVD1929): CONVERTED TO
Significant observations and notes: NAUD 1988 EL = 8.95'
AUTHENTICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
SEAL
PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE
WAYNE W. PURGETT 4531454 PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER (Please print or type)
132 E. CLINTON ST. CLAYTON, NJ 08312 (BSG) 881-8677



Test pit located in rip-rap embankment on the southern portion of the Site.



Western sidewall of test pit.



Top down view.



Western sidewall of test pit.



View looking northwest.

. Chapter I

known to occur in carbonate-hosted mineralized zones. It may be stabilized by high concentrations of trace elements because the original type material contained up to 3% Bi.

Many other assenic-containing minerals are known and have some thermochemical measurements but they are beyond the scope of this paper.

3.2 pe-pH diagrams for arsenic

The tabulated thermodynamic data can be used to develop the pe-pH diagrams for arsenic, shown in Figures 2 and 3, that summarize the predominance fields for aqueous species and the mineral stability fields, respectively. These diagrams also help to focus the discussion on environmentally relevant geochemical processes.

The predominance area diagram of Figure 2 shows that, under oxidizing conditions, arsenate hydrolyzes to four possible species for the range of pH encountered in surface and ground waters, although the fully dissociated arsenate ion would be rare because very few waters reach a pH greater than 11.5. Under reducing conditions, the fully protonated arsenate species is predominant over a wide range of pH and because it is not ionized and adsorbs less strongly than arsenate species, dissolved arsenite tends to be much more soluble than arsenate. Hence, reducing conditions usually lead to increased concentrations of arsenic in ground waters provided that arsenic is available in the aquifer or the sediments. Arsine, AsHa, was estimated to be at the same pe and pH conditions as the formation of hydrogen, i.e. the lower limits for water. Hence, it does not show on this diagram.

Figure 3 shows the sequence of stable minerals from fully oxidized arsenic pentoxide to fully reduced native arsenic in the presence of 10⁴m total dissolved sulfide. Native arsenic has a narrow stability field only under the strongest reducing conditions, consistent with field observations except that in the field it seems to form at higher temperatures than 25°C. No mineral corresponds with As(V) oxide because it is extremely soluble (about 40 grams per 100 grams of solution, Menzies and Potter, 1912) and the addition of the type of divalent cations commonly found in surface and ground waters would promote the precipitation of metal arsenates that are less soluble than the pentoxide (e.g. calcium arsenate precipitation, Nishimura and Robins, Duoning, 1988; Nishimura and Robins, 1998).

The stability field for orpiment occurs between realgar and claudetite and the stability field for realgar is barely visible at all in contrast to other diagrams such as that found in Brookins (1986). The relative stability field for realgar can change significantly with small changes in free energy for either (or both) orpiment and realgar and further refinement of the data

1. Arsenic thermodynamic data and environmental geocnemistry

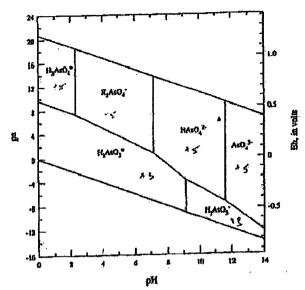


Figure 2. po pH diagram for predominant aqueous species of arsenic at equilibrium and 298.15 K and I atmosphere pressure.

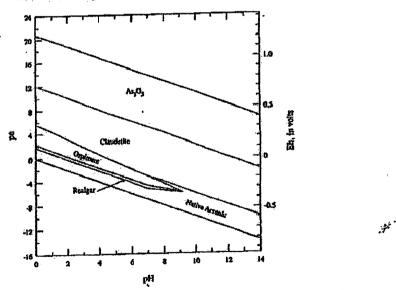
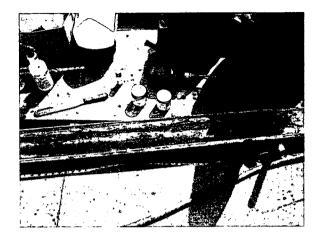


Figure 3. pe-pH diagram for equilibrium mineral stabilities in the As-O-S-H₂O system at 298.15 K and 1 atmosphere pressure. Total dissolved sulfar = 10⁻⁴ m.

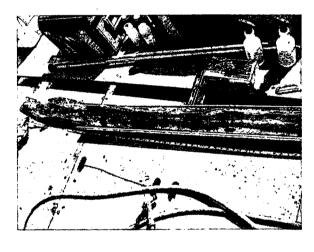
SEDIMENT PHOTOGRAPHS Project No. 41.0161318.00

45 River Road Edgewater, New Jersey

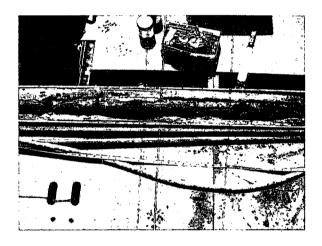
Taken on 8/1/07 and 8/2/07



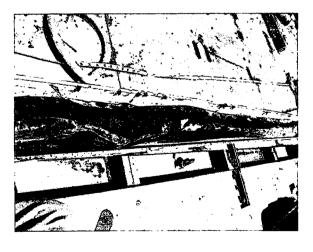
SED-17



SED-21



SED-17



SED-21



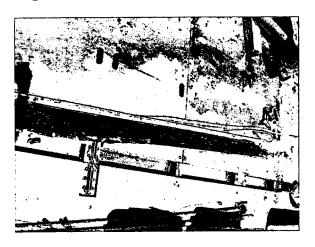
SED-19

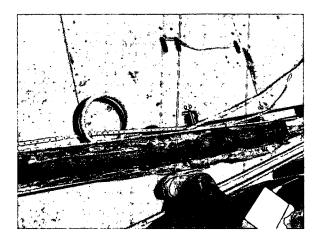
SED-24

SEDIMENT PHOTOGRAPHS Project No. 41.0161318.00

45 River Road Edgewater, New Jersey

Taken on 8/1/07 and 8/2/07





SED-25 SED-26

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek

Client Project ID: GZA - Edgewater NJ Client Sample ID: Bench Scale S-1 Work Up

Date Sampled: 02/12/07 12:00

Percent Solids: N/A Initial Volume: 200 Final Volume: 1

Extraction Method: 3520C

ESS Laboratory Work Order: 0702161 ESS Laboratory Sample ID: 0702161-01

Sample Matrix: Soil Analyst: VSC

Prepared: 02/16/07 SPLP Date: 2/14/07

1312/8270C Semi Volatile SPLP Compounds

				SPLP	
<u>Analyte</u> I,I-Biphenyl	Results ND	Units mg/L	MRL 0.05	<u>Limit</u> <u>DF</u>	Analyzed 02/19/07
1,2,4-Trichlorobenzene	ND	mg/L	0.05	1	02/19/07
1,2-Dichlorobenzene	ND	mg/L	0.05	1	02/19/07
1,3-Dichlorobenzene	ND	mg/L	0.05	i	02/19/07
1,4-Dichlorobenzene	ND	mg/L	0.05	1	02/19/07
2,3,4,6-Tetrachlorophenol	ND	mg/L	0.25	1	02/19/07
2,4,5-Trichlorophenol	ND	mg/L	0.05	1	02/19/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	1	02/19/07
2,4-Dichlorophenol	ND	mg/L	0.05	1	02/19/07
-Dimethylphenol	ND	mg/L	0.25	1	02/19/07
4-Dinitrophenol	ND	mg/L	0.25	ı	02/19/07
2.4-Dinitrotolucne	ND	mg/L	0.05	1	02/19/07
2.6-Dinitrotoluene	ND	mg/L	0.05	1	02/19/07
2-Chloronaphthalene	ND	mg/L	0.05	I	02/19/07
2-Chlorophenol	ИD	mg/L	0.05	1	02/19/07
2-Methylnaphthalene	0.38	mg/L	0.05	1	02/19/07
2-Methylphenoi	0.17	mg/L	0.05	\mathbf{t}_{i}	02/19/07
2-Nitroaniline	ND	mg/L	0.05	1	02/19/07
2-Nitrophenol	ND	mg/L	0.05	I	02/19/07
3.3'-Dichlorobenzidine	ND	mg/L	01.0	1	02/19/07
3+4-Methylphenol	0.41	mg/L	0.10	i	02/19/07
3-Nitroaniline	ND	mg/L	0.05	1	02/19/07
4.6-Dinitro-2-Methylphenol	ND	mg/L	0.25	1	02/19/07
4-Bromophenyl-phenylether	ND	mg/L	0.05	1	02/19/07
4-Chloro-3-Methylphenol	ND	mg/L	0.05	1	02/19/07
4-Chloroaniline	ND	mg/L	0.10	1	02/19/07
4-Chloro-phenyl-phenyl ether	ND	mg/L	0.05	1	02/19/07
4-Nitroaniline	ND	mg/L	0.05	1	02/19/07
4-Nitrophenol	ND	mg/L	0.25	Į	02/19/07
Acenaphthene	0.15	mg/L	0.05	1	02/19/07
Acenaphthylene	ND	mg/L	0.05	1	02/19/07
cetophenone	ND	mg/L	0.05	1	02/19/07
illine	ND	mg/L	0.05	1	02/19/07
Anthracene	0.05	mg/L	0.05	1	02/19/07
Azobenzene	ND	mg/L	0.10	1	02/19/07

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181 Dependability

Quality

Fax: 401-461-4486 Service

http://www.ESSLaboratory.com

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek

Client Project ID: GZA - Edgewater NJ Client Sample ID: Bench Scale S-1 Work Up

Date Sampled: 02/12/07 12:00

Percent Solids: N/A Initial Volume: 200 Final Volume: 1

Extraction Method: 3520C

*ESS Laboratory Work Order: 0702161 ESS Laboratory Sample ID: 0702161-01

Sample Matrix: Soil Analyst: VSC

Prepared: 02/16/07 SPLP Date: 2/14/07

	1312/82700	C Semi V	Volatile SPLP	Compounds	
Benzo(a)anthracene	ND	mg/L	0.05	1	02/19/07
Benzo(a)pyrene	ND	mg/L	0.05	1	02/19/07
Benzo(b)fluoranthene	ND	mg/L	0.05	1	02/19/07
Benzo(g,h,i)perylene	ND	mg/L	0.05	1	02/19/07
Benzo(k)fluoranthene	ND	mg/L	0.05	1	02/19/07
Benzoic Acid	ND	mg/L	0.50	. 1	02/19/07
Benzyi Alcohoi	ND	mg/L	0.05	I	02/19/07
bis(2-Chloroethoxy)methane	ND	mg/L	0.05	1	02/19/07
bis(2-Chloroethyl)ether	ND	mg/L	0.05	1	02/19/07
bis(2-chloroisopropy!)Ether	ND	mg/L	0.05	1	02/19/07
bis(2-Ethylhexyl)phthalate	ND	mg/L	0.03	ŧ	02/19/07
tylbenzylphthalate	ND	mg/L	0.05	I	02/19/07
Carbazole	0.35	mg/L	0.05	I	02/19/07
Chrysene	ND	mg/L	0.05	1	02/19/07
Dibenzo(a,h)Anthracene	ND	mg/L	0.05	. 1	02/19/07
Dibenzofuran	0.12	mg/L	0.05	1	02/19/07
Diethylphthalate	ND	mg/L	0.05	I	02/19/07
Dimethylphthalate	ND	mg/L	0.05	1	02/19/07
Di-n-butylphthalate	ND	mg/L	0.05	1	02/19/07
Di-n-octylphthalate	ND	mg/L	0.05	i	02/19/07
Fluoranthene	ND	mg/L	0.05	1	02/19/07
Fluorene	0.13	mg/L	0.05	1	02/19/07
Hexachlorobenzene	ND	mg/L	0.05	1	02/19/07
Hexachlorobutadiene	ND	mg/L	0.05	1	02/19/07
Hexachlorocyclopentadiene	ND	mg/L	0.25	ı	02/19/07
Hexachloroethane	ND	mg/L	0.02	1	02/19/07
Indeno(1,2,3-cd)Pyrene	ND	mg/L	0.05	1	02/19/07
Isophorone	ND	mg/L	0.05	1	02/19/07
Naphthalene	2.03	mg/L	0.05	1	02/19/07
Nitrobenzene	ND	mg/L	0.05	1	02/19/07
N-Nitrosodimethylamine	ND	mg/L	0.05	1	02/19/07
N-Nitroso-Di-n-Propylamine	ND	mg/L	0.05	1	02/19/07
N-nitrosodiphenylamine	ND	mg/L	0.10	1	02/19/07
entachlorophenol	ND	mg/L	0.02	1	02/19/07
enanthrene	0.13	mg/L	0.05	1	02/19/07
Phenol	0.10	mg/L	0.05	1	02/19/07

Quality

Dependability

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek

Client Project ID: GZA - Edgewater NJ Client Sample ID: Bench Scale S-1 Work Up

Date Sampled: 02/12/07 12:00

Percent Solids: N/A Initial Volume: 200 Final Volume: 1

Extraction Method: 3520C

ESS Laboratory Work Order: 0702161 ESS Laboratory Sample ID: 0702161-01

Sample Matrix: Soil Analyst: VSC

Prepared: 02/16/07 SPLP Date: 2/14/07

1312/8270C Semi Volatile SPLP Compounds

Pyrene	ND	mg/L	0.05	1	02/19/07
Pyridine	ND	mg/L	0.50	1	02/19/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	43 %		30-130
Surrogate: 2,4,6-Tribromophenol	<i>52</i> %		15-110
Surrogate: 2-Chlorophenol-d4	47 %		15-110
Surrogate: 2-Fluorobiphenyl	<i>56 %</i>		30-130
Surrogate: 2-Fluorophenol	<i>39</i> %		15-110
Surrogate: Nitrobenzene-d5	88 %		30-130
Surrogate: Phenol-d6	39 %		15-110
Surrogate: p-Terphenyl-d14	<i>65</i> %		30-130

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek

Client Project ID: GZA - Edgewater NJ Client Sample ID: Bench Scale S-1 Work Up

Date Sampled: 02/12/07 12:00

Percent Solids: N/A

ESS Laboratory Work Order: 0702161 ESS Laboratory Sample ID: 0702161-01

Sample Matrix: Soil

SPLP Date: 2/14/07

1312/6000/7000 SPLP Metals

					SPLP					
<u>Analyte</u> Antimony	<u>Results</u> 0.003	Units mg/L	MRL 0.002	Method 1312/7041	Limit	$\frac{\mathbf{DF}}{1}$	Analyst SVD	Analyzed 02/20/07	<u>I/V</u> 100	<u>F/V</u> 50
Arsenic	ND	mg/L	0.02	1312/6010B		1	SVD	02/15/07	001	50
Barium	0.065	mg/L	0.025	1312/6010B		1	SVD	02/15/07	100	50
Beryllium	ND	mg/L	0.0005	1312/6010B		1	SVD	02/15/07	100	50
Cadmium	ND	mg/L	0.002	1312/6010B		i	SVD	02/15/07	100	50
Chromium	0.02	mg/L	0.01	1312/6010B		1	SVD	02/15/07	100	50
Copper	0.02	mg/L	0.01	1312/6010B		1	SVD	02/15/07	100	50
Lead	ND	mg/L	0.002	1312/7421		1	SVD	02/16/07	100	50
Mercury	ND	mg/L	0.0005	1312/7470A		1	EEM	02/15/07	20	40
ckel	ND	mg/L	0.02	1312/6010B		1	SVD	02/15/07	100	50
ienium	ND	mg/L	0.02	1312/6010B		1	SVD	02/15/07	100	50
Silver	ND	mg/L	0.002	1312/6010B		1	SVD	02/15/07	100	50
Thallium	ND	mg/L	0.0010	1312/7841		1	SVD	02/19/07	100	50
Zinc	ND	mg/L	0.025	1312/6010B		1	SVD	02/15/07	100	50

Quality

Service

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek

Client Project ID: GZA - Edgewater NJ Client Sample ID: Bench Scale S-1 Work Up

Date Sampled: 02/12/07 12:00

Percent Solids: N/A Initial Volume: 10 Final Volume: 10

Extraction Method: 5030B

ESS Laboratory Work Order: 0702161 ESS Laboratory Sample ID: 0702161-01

Sample Matrix: Soil

Analyst: MD

SPLP Date: 2/19/07

1312/8260B Volatile SPLP Compounds

A 1	-			SPLP		
Analyte 1,1,1,2-Tetrachloroethane	<u>Results</u> ND	Units mg/L	MRL 0.100	<u>Limit</u>	<u>DF</u> 100	Analyzed 02/20/07
1.1,1-Trichloroethane	ND	mg/L	0.100		100	02/20/07
1,1,2.2-Tetrachloroethane	ND	mg/L	0.0500		100	02/20/07
1,1,2-Trichloroethane	ND	mg/L	0.100		100	02/20/07
1.1-Dichloroethane	ND	mg/L	0.100		100	02/20/07
1,1-Dichloroethene	ND	mg/L	0.100		100	02/20/07
1,1-Dichloropropene	ND	mg/L	0.200		100	02/20/07
1,2,3-Trichlorobenzene	ND	mg/L	0.100		100	02/20/07
1.2.3-Trichloropropane	ND	mg/L	0.100		100	02/20/07
4-Trichlorobenzene	ND	mg/L	0.100		100	02/20/07
2,4-Trimethylbenzene	ND	mg/L	0.100	,	100	02/20/07
1,2-Dibromo-3-Chloropropane	ND	mg/L	0.500		100	02/20/07
1,2-Dibromoethane	ND	mg/L	0.100		100	02/20/07
1,2-Dichlorobenzene	ND	mg/L	0.100		100	02/20/07
1.2-Dichloroethane	ND	mg/L	0.100		100	02/20/07
1,2-Dichloropropane	ND	mg/L	0.100		100	02/20/07
1.3.5-Trimethylbenzene	ND	mg/L	0.100		100	02/20/07
1,3-Dichlorobenzene	ND	mg/L	0.100		100	02/20/07
1,3-Dichloropropane	ND	mg/L	0.100		100	02/20/07
1,4-Dichlorobenzene	ND	mg/L	0.100		100	02/20/07
1,4-Dioxane - Screen	ND ·	mg/L	50.0		100	02/20/07
I-Chlorohexane	ND	mg/L	0.100		100	02/20/07
2.2-Dichloropropane	ND	mg/L	0.100		100	02/20/07
2-Butanone	ND	mg/L	2.50		100	02/20/07
2-Chlorotoluene	ND	mg/L	0.100		100	02/20/07
2-Hexanone	ND	mg/L	1.00		100	02/20/07
4-Chlorotoluene	ND	mg/L	0.100		100	02/20/07
4-Isopropyltoluene	ND	mg/L	0.100		100	02/20/07
4-Methyl-2-Pentanone	ND	mg/L	2.50		100	02/20/07
Acetone	ND	mg/L	2.50		100	02/20/07
Benzene	ND	mg/L	0.100		100	02/20/07
Promobenzene	ND	mg/L	0.200		100	02/20/07
mochloromethane	ND	mg/L	0.100		100	02/20/07
Bromodichloromethane	ND	mg/L	0.100		100	02/20/07
Bromoform	ND	mg/L	0.100		100	02/20/07

185 Frances Avenue, Cranston, RI 02910-2211

Dependability

Tel: 401-461-7181 ability • Quality

Fax: 401-461-4486 + Service http://www.ESSLaboratory.com

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek

Client Project ID: GZA - Edgewater NJ Client Sample ID: Bench Scale S-1 Work Up

Date Sampled: 02/12/07 12:00

Percent Solids: N/A Initial Volume: 10 Final Volume: 10

Extraction Method: 5030B

ESS Laboratory Work Order: 0702161 ESS Laboratory Sample ID: 0702161-01

Sample Matrix: Soil

Analyst: MD

SPLP Date: 2/19/07

Dittavion monou. 3030D					
	1312/82	60B Vo	latile SPLP C	ompounds	
Bromomethane	ND	mg/L	0.200	100	02/20/07
Carbon Disulfide	ND	mg/L	0.100	100	02/20/07
Carbon Tetrachloride	ND	mg/L	0.100	100	02/20/07
Chlorobenzene	ND	mg/L	0.100	100	02/20/07
Chloroethane	ND	mg/L	0.200	100	02/20/07
Chloroform	ND	mg/L	0.100	100	02/20/07
Chloromethane	ND	mg/L	0.200	100	02/20/07
cis-1,2-Dichloroethene	ND	mg/L	0.100	100	02/20/07
cis-1.3-Dichloropropene	ND	mg/L	0.0500	100	02/20/07
Dibromochloromethane	ND	mg/L	0.100	100	02/20/07
Dibromomethane	ND	mg/L	0.100	100	02/20/07
chlorodifluoromethane	ND	mg/L	0.200	100	02/20/07
viethyl Ether	ND	mg/L	0.100	100	02/20/07
Di-isopropyl ether	ND	mg/L	0.100	100	02/20/07
Ethyl tertiary-butyl ether	ND	mg/L	0.100	100	02/20/07
Ethylbenzene	ND	mg/L	0.100	100	02/20/07
Hexachlorobutadiene	ИD	mg/L	0.0600	100	02/20/07
Isopropyibenzene	ND	mg/L	0.100	100	02/20/07
Methyl tert-Butyl Ether	ND	mg/L	0.100	100	02/20/07
Methylene Chloride	ND	mg/L	0.500	100	02/20/07
Naphthalene	6.69	mg/L	0.100	100	02/20/07
n-Butylbenzene	ND	mg/L	0.100	100	02/20/07
n-Propylbenzene	ND	mg/L	0.100	100	02/20/07
sec-Butylbenzene	ND	mg/L	0.100	100	02/20/07
Styrene	ND	mg/L	0.100	100	02/20/07
tert-Butylbenzene	ND	mg/L	0.100	100	02/20/07
Tertiary-amyl methyl ether	ND	mg/L	0.100	100	02/20/07
Tetrachloroethene	ND	mg/L	0.100	100	02/20/07
Tetrahydrofuran	ND	mg/L	0.500	100	02/20/07
Toluene	ND	mg/L	0.100	100	02/20/07
trans-1,2-Dichloroethene	ND	mg/L	0.100	100	02/20/07
trans-1.3-Dichloropropene	ND	mg/L	0.0500	100	02/20/07
Trichloroethene	ND	mg/L	0.100	100	02/20/07
ichlorofluoromethane	ND	mg/L	0.200	100	02/20/07
.nyl Acetate	ND	mg/L	0.500	100	02/20/07
Vinyl Chloride	ND	mg/L	0.100	100	02/20/07

Quality

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek

Client Project ID: GZA - Edgewater NJ
Client Sample ID: Bench Scale S-1 Work Up

Date Sampled: 02/12/07 12:00

Percent Solids: N/A Initial Volume: 10 Final Volume: 10

Extraction Method: 5030B

ESS Laboratory Work Order: 0702161 ESS Laboratory Sample ID: 0702161-01

Sample Matrix: Soil

Analyst: MD

SPLP Date: 2/19/07

1312/8260B Volatile SPLP Compounds

	1312/04	OOD YU	name or	Lr Compou	nus	
Xylene O	ND	mg/L	0.100	-	100	02/20/07
Xylene P,M	ND	mg/L	0.200		100	02/20/07
	%R	ecovery	Qualifier	Limits		
Surrogate: 1,2-Dichloroethane-d4		92 %		70-130		
Surrogate: 4-Bromofluorobenzene		98 %		70-130		
Surrogate: Dibromofluoromethane		92 %		70-130		
Surrogate: Toluene-d8		93 %		70-130		

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: United Retek

Client Project ID: GZA - Edgewater NJ ESS Laboratory Work Order: 0702161

Notes and Definitions

U Analyte included in the analysis, but not detected

D Diluted.

Outside QC Limits.

ND Analyte NOT DETECTED above the detection limit

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference Method Detection Limit MDL MRL Method Reporting Limit mg/kg Results reported as wet weight

TCLP Toxicity Characteristic Leachate Procedure

I/V Initial Volume F/V Final Volume

Subcontracted analysis; see attached report

TIC A forward library search of the NBS Mass Spectral Library was performed on this sample using the

McLafferty Probability Base Matching (PBM) Algorithm. An estimated concentration of non-TCL

compounds tentatively identified is quantified by the internal standard method. The nearest internal standard free of interferences was used to quantify. A response factor of one was assumed. This search was inclusive

of the ten largest peaks greater than ten percent of the nearest internal standard.

Range result excludes concentrations of surrogates and/or internal standards eluting in that range.

Range result excludes concentrations of target analytes eluting in that range.

Range result excludes the concentration of the C9-C10 aromatic range.

Results reported as a mathematical average. Avg

No Recovery NR

The state of RI does not grant certification for this method for non-potables.

Service



Christine Todd Whitman

Department of Environmental Protection

Robert C. Shins, Jr. Commissioner

November 10, 1998

Russ Sattler COO United Retek of New Jersey 612 River Street Suite 102-103 Hoboken, NJ 07030

Re: United Retek of New Jersey IET Certification 98-001

Dear Mr. Sattler:

Enclosed is the New Jersey Department of Environmental Protection's Innovative Environmental Technology Certification of the regulatory determination based on the validation of your technology through the New Jersey Corporation for Advanced Technologies (NJCAT) Verification program. I wanted to congratulate you on being the first New Jersey company through this process. The NJCAT Verification validated the performance claims of the Retek process to stabilize and recycle soils contaminated with petroleum hydrocarbon for reuse on-site as subbase paving and curbing materials and for stabilization of lead on-site for the boundary conditions of the soils and contaminants defined in the NJCAT technology verification report. This Certification validates the regulatory determination.

Increasing the use of innovative environmental technologies that have a net benefit effect and that can assist the Department in improving our state's overall environmental quality face a two prong barrier to their commercialization and deployment. One is that investors and user of the environmental technology may not have access to third party validated data of the performance and the potential successes of the technology. The other is that investors or vendors of the environmental technology face a fragmented market place represented by 50 individual state approval programs. The NJCAT verification and NJDEP certification can in part, address these barriers.

The verification of an innovative environmental technology by a third party entity is of itself a valuable document. It can provide a high degree of confidence to a private sector developer who is seeking to invest in or install and use new environmental technology that can go beyond compliance with regulatory permits or standards. The uniqueness of the NJCAT verification is its direct connection to a regulatory determination. The NJCAT verification validates the Retek process as a categorical exemption for beneficial use. This means that no further case-by-case site specific beneficial use determination or approval is required as defined in the NJDEP Guidance Document for the Remediation of Contaminated Soils, 1998. The NJCAT verification addresses one part of the

carrier to deployment of new environmental technology, increased access to valid third party evaluation data. The verification of an environmental technology should assist in increasing investment in and use of innovative environmental technologies that can improve New Jersey's environmental quality indicators as established in the NJDEP Strategic Plan. However, the key to completing our response to barrier to deployment of new environmental technologies needs to be linked to a regulatory determination. That regulatory link needs to be connected to interstate reciprocity of the acceptance of that technology.

The other part of the equation to response to the barriers to deployment of cleaner technologies is interstate reciprocity for technology and regulatory acceptance. This means that the environmental and operational data and the overall performance of the Retek process, as verified by NJCAT and the regulatory determination, as certified by the NJDEP of the verified Retek process is accessible and useable to other states as outlined in the Six-state MOU Pilot Project Strategies Report. This will interconnect environmental technology and regulatory acceptance in a way that we, state environmental agencies, can now respond to the real or perceived barriers to environmental technology deployment.

Again congratulations on your success and I am sure that the NJCAT will continue to provide appropriate assistance through a broad array of market applications in partnership with the Department. One market assistance that is immediately available to the NJCAT verified Retek process is through the Brownfield and Contaminated Sites Remediation Act NJSA 58:10B-6a. This Act can provide matching funding through the Hazardous Discharge Site Remediation Fund for up to 50% or \$200,000 of the project cost to perform the remedial action certified by NJDEP.

Røbert C. Shinn Commissioner

Enclosure

c: Rick Gimello, Assistant Commissioner, Site Remediation
Gary Sondermeyer, Assistant Commissioner, Environmental Regulations
Robert Tudor, Assistant Commissioner, Environmental Planning and Science
Rhea Brekke, Executive Director, NJCAT